

## **TOTAL AT A GLANCE**

#### TOTAL, A MAJOR ENERGY OPERATOR

Total is a major energy player, which produces and markets fuels, natural gas and low-carbon electricity. Our 100,000 employees are committed to better energy that is safer, more affordable, cleaner and accessible to as many people as possible. Active in more than 130 countries, our ambition is to become the responsible energy major.

# TOTAL MARKETING AND SERVICES, SERVING YOUR NEEDS WORLDWIDE EACH AND EVERY DAY

Total Marketing & Services develops and markets products primarily derived from crude oil, along with all the associated services. Our 31,000 employees are present in 109 countries and our products and offers are sold in 150 countries. Every day, Total Marketing & Services serves more than 8 million customers in our network of over 14,000 service stations in 62 countries. As the world's fourth-largest distributor of lubricants and the leading distributor of petroleum products

in Africa, Total Marketing & Services operates 50 production sites worldwide where we manufacture the lubricants, bitumen, additives, special fuels and fluids that sustain our growth.

# TOTAL LUBRIFIANTS, CUTTING EDGE R&D IN LUBRICANT INNOVATION FOR OVER 60 YEARS

Total Lubrifiants is a leading global manufacturer and marketer of engine oils and lubricants. We have 41 production plants worldwide and more than 5,800 employees in 150 countries. Total Lubrifiants offers innovative, efficient and environmentally responsible products and services developed by more than 300 researchers at its R&D center. Total Lubrifiants is a partner of choice for the automotive, industrial and marine markets.

## THE KEY CHARACTERISTICS OF A LUBRICANT

## THE COMPOSITION OF A LUBRICANT

A lubricant is composed of base oil and several additives: anti-oxidant, longlasting anti-wear, anti-rust...

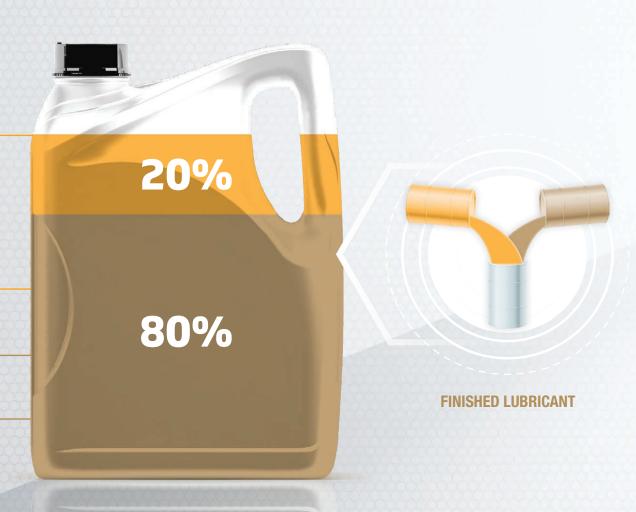
## **ADDITIVES**

The additives are chemical products specially conceived for their capacities to improve some of the oils' characteristics.

The base oil's properties are drastically improved by the integration of performance and polymers additives.

#### **BASE OILS**

Base oils are the major components of most of the lubricants.



## THE MAIN FUNCTIONS OF A LUBRICANT

The lubricant plays a key role in the proper functioning of all motor vehicles. Without it, the engine's performance would be impacted, as well as its life span.



**Protect mechanical devices** against wear and corrosion.

**Reduce friction** in order to improve performance and decrease fuel consumption.





**Evacuate dirt** to the oil filter in order to maintain the cleanliness of engine components. The selected oil for maintenance will have a strong impact on the clean condition of engines, at all levels!

**Contribute in the sealing of the engine** in order to guarantee optimal performances.





**Cool the engines** and avoid the deformation of its parts.

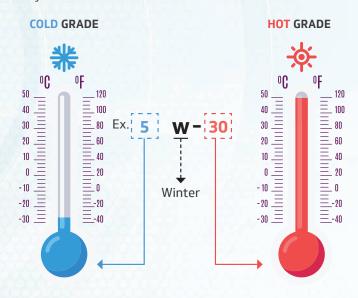
**Reduce fuel consumption.** 



## THE VISCOSITY AND GRADES OF A LUBRICANT

#### **OIL VISCOSITY**

The viscosity of a lubricant, which is its capacity to flow, is dertermined by its grade. It is indicated by two separated numbers by a letter W which stands for Winter.



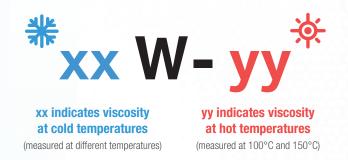
1st number = Cold grade The lower the number is, the more fluid at cold the lubricant is.

Easy start at low temperature

2<sup>nd</sup> number = Hot grade The higher the number is, the more viscous at hot the lubricant is.

Engine protection at high temperature

#### **OIL GRADES**



The SAE (Society of Automotive Engineers) has created a classification for lubricant grades in order to characterize viscosity at high and low temperatures.

The grades are stated as follows:

**SAE xxW-yy** 

Multigrade lubricant (ex: 5W-30, 15W-40)

SAE xxW or SAE yy

Monograde lubricant (ex: 10W, 30, 40)

The higher the number, the higher the viscosity level.

## THE NEW PACKAGING, A NEW VISION OF PERFORMANCE

# SIMPLICITY, PERFORMANCE & EFFICIENCY

In 2020, Total Lubrifiants ranges have been entirely revamped to offer a high level of efficiency and innovation (new bottles, new labels, new ranges). With Total Lubrifiants, a new vision of performance for your everyday life is ahead.

#### **NEW CAN DESIGN**

TOTAL small packages are gradually replaced by a new range of upgraded small packages: 250 mL, 500 mL, 700mL, 800mL, 1L, 1.2L & 1.5L, 2L, 3L, 4L, 5L, 6L, 7L & 10L.



BEFORE WING DESIGN



AFTER WAVE DESIGN



## **NEW COLOR STRATEGY**

- A new global three-color strategy consistent across all markets that highlights the product upgrade and improves readability within the ranges.
- Platinum gold, Silver, and Bronze strategy applies to blockbusters and the drivetrain range.
- Translucent for coolants.
- Bronze for all the other dedicated ranges.
- PLATINUM GOLD
  For top-tier product range
- SILVER
  For mid-tier range
- BRONZE
  For entry range or dedicated ranges



## THE NEW PACKAGING, A NEW VISION OF PERFORMANCE

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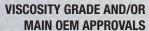
#### **NEW LABEL ARTWORKS**

#### BETTER PRECISION. **LESS OIL LOSS**

No more splashes or leaks when pouring your lubricant. The caps have been redesigned for a simple and efficient use.

#### **NEW DASHBOARD CONCEPT**

Introduction of a new label design inspired by car dashboards, with panels that display product marketing and technical information (educational pictograms, product features, clear viscosity grade, technical profil indication).



#### **ADDITIONAL FEATURES**

Need to authenticate and get more information about one of our products? Just scan the QR code to be redirected to our website.















#### **USER-FRIENDLY HANDLE**

The new big side handle has been rethought to facilitate the carrying and pouring of the product.





#### **RANGE LOGO**

Optimized visibility of the brand and range logo.



#### **MAIN TECHNICAL SPECS** AND/OR PRODUCT RTB

Dedicated starburst to highlight product benefits have been designed to translate the high quality of our TOTAL QUARTZ ranges. Choose yours according to the need of your vehicle.



9000





**BACK OF PACK** 



TOTAL LUBBOOK



TOTAL AT A GLANCE o-P2



THE KEY CHARACTERISTICS OF A LUBRICANT
P3



THE NEW PACKAGING, OH A NEW VISION OF PERFORMANCE





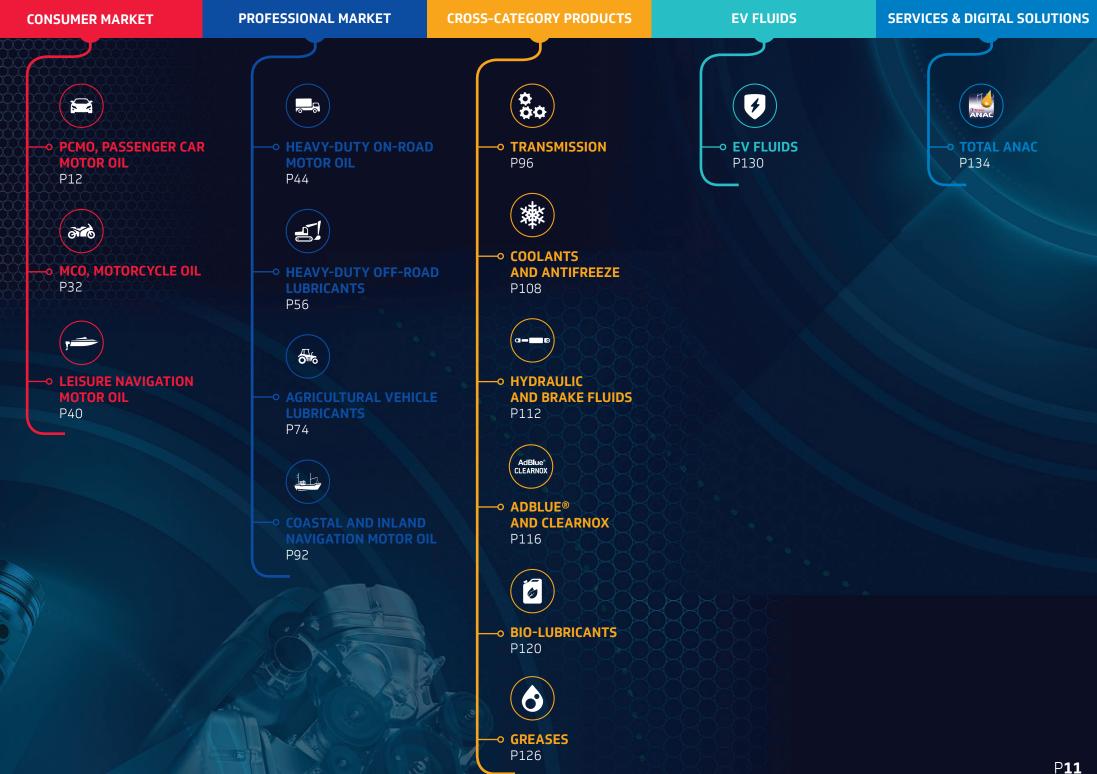














## **TOTAL QUARTZ**

**CONSUMER MARKET** 

TOTAL QUARTZ, REEP TOUR ENGINE TOUNGER FOR LUNGER	PAUE I
TOTAL QUARTZ, STATE-OF-THE-ART TECHNOLOGY	PAGE 1
TOTAL QUARTZ RANGE ARCHITECTURE	PAGE 1
TOTAL QUARTZ INEO XTRA	PAGE 1
TOTAL QUARTZ 9000 XTRA	PAGE 1
TOTAL QUARTZ INEO	PAGE 1
TOTAL QUARTZ 9000	PAGE 2
TOTAL QUARTZ 7000	PAGE 2
TOTAL QUARTZ 5000	PAGE 2
TOTAL QUARTZ 4000	PAGE 2
TOTAL QUARTZ 3000	PAGE 2

## **TOTAL CLASSIC**

TOTAL CLASSIC, THE GUARANTEED QUALITY	PAGE 28
TOTAL CLASSIC RANGE ARCHITECTURE	PAGE 29
TOTAL CLASSIC 9	PAGE 30
TOTAL CLASSIC 7	PAGE 31
TOTAL CLASSIC 5	PAGE 31





# TOTAL QUARTZ, KEEP YOUR ENGINE YOUNGER FOR LONGER





TOTAL QUARTZ deals with the demands of a diversified customer base every day. From motorsports teams and top racers to real-life experts, such as manufacturers and mechanics, our oil is tailored to meet all customer needs.

TOTAL QUARTZ engineers have capitalized on 60 years of experience to design formulas with unprecedented molecular interactions. Each product contains specific hyperactive molecules that create the desired effect:

- TOTAL QUARTZ series are empowered with the newest technologies.

  Thanks to a long history of bold R&D, our TOTAL QUARTZ engine oils exceed even the most demanding requirements of car manufacturers.
- TOTAL QUARTZ products are tested and approved by Major Automobile Manufacturers (Original Equipment Manufacturers OEMs).

  These product approvals are the official guarantee proving that TOTAL QUARTZ products are 100% compatible with the equipment and technology of these related manufacturers.
- TOTAL QUARTZ engine oils not only enhance engine cleanliness, boost engine protection but also improve fuel efficiency<sup>1</sup>.

**TOTAL QUARTZ: Keep your engine younger for longer!** 

When dedicated "Fuel Economy" products are used.

## TOTAL QUARTZ,

THE EFFECTIVE ENGINE

**CLEANING TECHNOLOGY** 

## STATE-OF-THE-ART TECHNOLOGY





#### Clean-Shield technology keeps engines clean from within. Its advanced detergent molecules act as a barrier between oxidized oil com-

pounds, to battle sludge formation.

Fighting against this major breakdown cause, TOTAL QUARTZ with Clean-Shield technology is an oil of choice across the globe to guarantee extended engine life and perfectly clean engine after oil change.

Age-Resistance technology offers unbeatable engine protection. Its unique combination of hyperactive molecules create a strong, thick oil film on all relevant engine parts in order to ensure their smooth performance.

The engine is boosted and free to drive at full capacity throughout its life span, while fighting all sorts of challenges, from oil oxidation to extreme temperatures or dirt.



#### **BEST ENGINE CARE FOR MAXIMISED PERFORMANCE**

Eco-Science technology is the latest breakthrough from Total's laboratories. It unleashes the power of all engines. Its cuttingedge friction modifiers reduce friction between parts, allowing for engines to reach their full potential. It offers long-lasting cleanliness, protection against ageing and significant fuel economy, hence an important reduction of carbon and particle emissions. TOTAL QUARTZ with Eco-Science technology is the first choice to answer all consumer needs.



# TOTAL QUARTZ, RANGE ARCHITECTURE

#### **TOTAL QUARTZ INEO XTRA**

Advanced Synthetic Technology Low Saps XTRA Fuel Economy Hybrid compatible

**FUEL ECONOMY** 

LONGEVITY

#### **TOTAL QUARTZ 9000 XTRA**

Advanced Synthetic Technology Normal Saps XTRA Fuel Economy Hybrid compatible

PROTECTION

CLEANLINESS



Up to **4,01%** fuel economy.<sup>1</sup> Meaning, up to **33%** improved Fuel Economy compared to industry limits.<sup>2</sup>

#### **TOTAL QUARTZ INEO**

Advanced Synthetic Technology Low Saps Fuel Economy<sup>5</sup>

**PROTECTION** 

**CLEANLINESS** 

#### **TOTAL QUARTZ 9000**

Advanced Synthetic Technology Normal Saps Fuel Economy<sup>5</sup>



Up to **74%** less wear compared to industry limits.<sup>3</sup>

#### **TOTAL QUARTZ 7000**

Synthetic Technology Normal Saps

**CLEANLINESS** 

#### **TOTAL QUARTZ 5000**

High-Performance Technology Normal Saps

#### TOTAL QUARTZ 4000, TOTAL QUARTZ 3000

Multigrade Engine Oil Normal Saps



Up to **64%** cleaner compared to industry limits.<sup>4</sup>

<sup>5</sup> When dedicated "Fuel Economy" products are used.

<sup>&</sup>lt;sup>1</sup> Based on the ACEA M111 Fuel Economy test. Result for TOTAL QUARTZ INEO XTRA DYNAMICS OW-20 compared to the industry reference as defined by the European Automobile Manufacturers' Association (ACEA).

Result for TOTAL QUARTZ INEO XTRA DYNAMICS OW-20 compared to the industry reference as defined by the European Automobile Manufacturers' Association (ACEA).

<sup>&</sup>lt;sup>3</sup> Based on the ACEA OM646LA test. Result for TOTAL QUARTZ 9000 5W-40 compared to the industry reference as defined by the European Automobile Manufacturers' Association (ACEA).

<sup>&</sup>lt;sup>4</sup> Based on the API Sequence IIIF test. Result for TOTAL QUARTZ 5000 15W-40 compared to the industry reference as defined by the American Petroleum Institute (API)

GM dexos1™Gen2 approved Ford WSS-M2C962-A1

GF-6A Recommended by Kia Motors

# **TOTAL QUARTZ INEO XTRA PRODUCTS**



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XTF	2A
<b>TOTAL QUARTZ 9000</b>	XTRA PRODUCTS

**TOTAL QUARTZ 9000** 

**XTRA FUTURE FGC** 

**TOTAL QUARTZ 9000** 

**XTRA HKR GF6A** 

**0W-20** 

**0W-20** 

TOTAL QUARTZ INEO XTF	A PRODUCTS	FEAT	URES		INTERI	NATIONAL SPECIFIO	CATIONS	OEM HOMOLOGATIONS		
COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	FUEL ECONOMY	LOW SAPS	ACEA	API	ILSAC	APPROVALS	MEETS THE REQUIREMENTS OF	
TOTAL QUARTZ INEO XTRA DYNAMICS	0W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTITION PLANE	C5	SN-RC	GF-5	ASTON MARTIN Twin Turbo V12 engines: Approved for factory fill and service fill BMW LL-17 FE+ (backward compatible BMW LL-14FE+)	Jaguar Land Rover STJLR.51.5122 Suitable for Ford WSS-M2C952-A1	
TOTAL QUARTZ INEO XTRA EC5	0W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PASTICLUTE PASTICLUTE	C5	API SP + RC	GF-6A	MB-Approval 229.72 (backward compatible 229.71) Opel / Vauxhall OV0401547 Ford WSS-M2C947-B1 Ford WSS-M2C962-A1 Jaguar Land Rover STJLR 03.5006 Volvo VCC RBS0-2AE	Fiat 9.55535-GSX Chrysler MS-12145	
TOTAL QUARTZ INEO XTRA FIRST	0W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE FILTER	C5			PSA B71 2010		
TOTAL QUARTZ INEO XTRA LONG LIFE	0W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE PILTER	C5			VW 508.00/509.00 Porsche C20		
TOTAL QUARTZ INEO XTRA V-DRIVE	0W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE FILTER	C5	SN/CF		Volvo VCC RBS0-2AE		
TOTAL QUARTZ INEO XTRA HKR C5	0W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE FILTER	C5	SP	GF-6A	Recommended by Kia Motors		
TOTAL QUARTZ INEO XTRA C5	0W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE PILTER	C5	SN		MB-Approval 229.71 Jaguar Land Rover STJLR.51.5122		
TOTAL QUARTZ 9000 XTF	RA PRODUCTS	FEAT	URES		INTERI	NATIONAL SPECIFIC	CATIONS	OEM HOMOL	OGATIONS	
COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	FUEL ECONOMY	LOW SAPS	ACEA	API	ILSAC	APPROVALS	MEETS THE REQUIREMENTS OF	
TOTAL QUARTZ 9000 XTRA FUTURE XT	0W-16	ADVANCED SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6B		Suitable for Toyota, Honda, Nissan, Mitsubishi	
TOTAL QUARTZ 9000 XTRA FUTURE XT	0W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A	Ford WSS-M2C962-A1	Suitable for Toyota, Honda, Nissan, Mitsubishi, Suzuki, Subaru, Mazda Suitable for Hyundai and KIA	

SP

SP

GF-6A

FUEL

FUEL

ADVANCED SYNTHETIC

**TECHNOLOGY** 

ADVANCED SYNTHETIC

**TECHNOLOGY** 

Suitable for Toyota, Honda, Nissan,

Mitsubishi, Suzuki, Subaru, Mazda

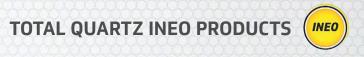
Suitable for Hyundai and KIA



## TOTAL QUARTZ INEO PRODUCTS (INEO)



TOTAL QUARTZ INEO	PRODUCTS	FEAT	TURES		INTERNATIO	ONAL SPECIFICATIONS	OEM HOMOLOGATIONS		
COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	FUEL ECONOMY	LOW SAPS	ACEA	API	APPROVALS	MEETS THE REQUIREMENTS OF	
TOTAL QUARTZ INEO EFFICIENCY	0W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTAUS ATE PILTER	C2, C3			BMW LL-04	
TOTAL QUARTZ INEO FDE	0W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE PILTER	C2		Ford WSS-M2C950-A Jaguar Land Rover STJLR.03.5007		
TOTAL QUARTZ INEO FIRST	0W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE PILTER	C1		PSA B71 2312 PSA B71 2302	Jaguar Land Rover STJLR.03.5007 Suitable for Toyota	
TOTAL QUARTZ INEO HKS	0W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE PILTER	C2	SN PLUS / CF	Recommended by KIA with Factory Fill performance		
TOTAL QUARTZ INEO LONG LIFE	0W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE PILTER	C3		VW 504.00/507.00 Porsche C30		
TOTAL QUARTZ INEO ECOB	5W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE PILTER	C5	SN	Ford WSS-M2C948-B Jaguar Land Rover STJLR.03.5004		
TOTAL QUARTZ INEO C1	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE PILTER	C1		Jaguar Land Rover STJLR.03.5005	Ford WSS-M2C934-B Ford WSS-M2C934-A	
TOTAL QUARTZ INEO C4	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE PARTICULATE PILTER	C4		Renault RN 0720 MB-Approval 226.51 MB-Approval 229.51	Fiat 9.55535-S4	
TOTAL QUARTZ INEO R-PLUS	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE FILTER	C3		Renault RN17		
TOTAL QUARTZ INEO DID	5W-30	ADVANCED SYNTHETIC TECHNOLOGY		PARTICULATE FILTER	C3	SN/CF	VW 505.00/505.01 MB-Approval 229.52	GM Dexos 2	
TOTAL QUARTZ INEO  ECS	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE PILTER	C2		PSA B71 2290	Fiat 9.55535-S1 lveco 18-1811 SC1 Suitable for Toyota	
TOTAL QUARTZ INEO HKS D	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE FILTER	C2		Recommended by KIA with Factory Fill performance		



TOTAL QUARTZ INEO I	PRODUCTS	FEAT	TURES		INTERNATIO	ONAL SPECIFICATIONS	OEM HOMOLOG	OEM HOMOLOGATIONS		
COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	FUEL ECONOMY	LOW SAPS	ACEA	API	APPROVALS	MEETS THE REQUIREMENTS OF		
TOTAL QUARTZ INEO  HTC	5W-30	ADVANCED SYNTHETIC TECHNOLOGY		PATTICULATE FILTER	C3	SN PLUS	PSA B71 2297 PSA B71 2290			
TOTAL QUARTZ INEO Long Life	5W-30	ADVANCED SYNTHETIC TECHNOLOGY		PARTICULATE FILTER	C3	SN / CF	VW 504.00/507.00 BMW LL-04 MB-Approval 229.51 PORSCHE C30			
TOTAL QUARTZ INEO  HZX	5W-30	ADVANCED SYNTHETIC TECHNOLOGY		PARTICULATE FILTER	C4	SN / CF	Isuzu Recommended Lubricant (2021)			
TOTAL QUARTZ INEO MC3	5W-30	ADVANCED SYNTHETIC TECHNOLOGY		PARTICULATE PILTER	C3	SN PLUS / CF	BMW LL-04 MB-Approval 229.52 Approved by Hyundai Kia Motors Corporation Opel / Vauxhall 0V0401547	GM Dexos 2 Chrysler MS-11106 VW 505.01		
TOTAL QUARTZ INEO MDC	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE FILTER	C2, C3	SN/CF	MB-Approval 229.52 GM Dexos 2 <sup>™</sup> Opel / Vauxhall 0V0401547	Hyundai Kia Motors Corporation		
TOTAL QUARTZ INEO C3	5W-40	ADVANCED SYNTHETIC TECHNOLOGY		PARTICULATE PILTER	C3	SN/CF	MB-Approval 229.51 VW 505.00/505.01 PORSCHE A40	Fiat 9.55535-S2 Ford WSS-M2C917-A GM Dexos 2		
TOTAL QUARTZ INEO FGO	5W-40	ADVANCED SYNTHETIC TECHNOLOGY		LET MAY AND PARTICULATE PRINTER	C3	SN/CF	BMW LL-04 MB-Approval 229.52 VW 511.00 Porsche C40 Renault RN 0700/0710	Fiat 9.55535-S2 GM Dexos 2		
TOTAL QUARTZ INEO RACING	10W-60	ADVANCED SYNTHETIC TECHNOLOGY		PARTICULATE PILTER	C3	SN/CF	ASTON MARTIN V8 naturally aspirated engines: Service fill approved	BMW M-Series		



## TOTAL QUARTZ 9000 PRODUCTS (9000)



TOTAL QUARTZ 9000	PRODUCTS	FEAT	TURES		INTERNA	ATIONAL SPECIFI	CATIONS	OEM HOMOLOG	ATIONS
COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	FUEL ECONOMY	LOW SAPS	ACEA	API	ILSAC	APPROVALS	MEETS THE REQUIREMENTS OF
TOTAL QUARTZ 9000 FUTURE GF6	0W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A		
TOTAL QUARTZ 9000 COG SN PLUS	0W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL			SN PLUS		GWM Spare Parts Numbers available on the TDS or the labels	
TOTAL QUARTZ 9000	0W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL		A5/B5	SL/CF		Volvo VCC 95200377	
TOTAL QUARTZ 9000 ENERGY	0W-30	ADVANCED SYNTHETIC TECHNOLOGY			A3/B4	SL/CF		MB-Approval 229.5 Volvo VCC 95200356 VW 502.00/505.00	
TOTAL QUARTZ 9000 FUTURE GF6	0W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A		
TOTAL QUARTZ 9000 FUTURE XT	0W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A	Ford WSS-M2C963-A1	
TOTAL QUARTZ 9000 HKR GF6A	0W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A	Recommended by Kia Motors	
TOTAL QUARTZ 9000 ENERGY	0W-40	ADVANCED SYNTHETIC TECHNOLOGY			A3/B4	SN/CF		ASTON MARTIN: Approved for 4.0L TwinTurbo V8 & 6.0L V12 Naturally aspirated engines MB-Approval 229.5 PORSCHE A40 VW 502.00/505.00 FORD WSS-M2C937-A	
TOTAL QUARTZ 9000 FUTURE GF6	5W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A		
TOTAL QUARTZ 9000  FUTURE XT	5W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A	Ford WSS-M2C960-A1	
TOTAL QUARTZ 9000 ENERGY	5W-30	ADVANCED SYNTHETIC TECHNOLOGY			A3/B4	SL/CF		BMW : BMW LL-01 MB-Approval 229.5 VW 502.00/505.00	
TOTAL QUARTZ 9000 ENERGY HKS G-310	5W-30	ADVANCED SYNTHETIC TECHNOLOGY			A5	API /CF		Recommended by KIA with Factory Fill performance	

# TOTAL QUARTZ 9000 PRODUCTS

TOTAL QUARTZ 9000	PRODUCTS	FEA	TURES		INTERNA	TIONAL SPECIF	ICATIONS	OEM HOMOLO	GATIONS
COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	FUEL ECONOMY	LOW SAPS	ACEA	API	ILSAC	APPROVALS	MEETS THE REQUIREMENTS OF
TOTAL QUARTZ 9000 NFC	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL		A5/B5	SL/CF		Ford WSS-M2C913-D (backward compatible WSS-M2C913-C, WSS-M2C913-B) Jaguar Land Rover STJLR.03.5003	
TOTAL QUARTZ 9000 FUTURE GF6	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A		
TOTAL QUARTZ 9000 FUTURE XT	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A	Ford WSS-M2C961-A1	
TOTAL QUARTZ 9000 FUTURE FGC	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A	GM dexos1™Gen2 approved Ford WSS-M2C961-A1	
TOTAL QUARTZ 9000 DIESEL CI-4	5W-30	ADVANCED SYNTHETIC TECHNOLOGY				CI-4			
TOTAL QUARTZ 9000 COG SN	5W-30	ADVANCED SYNTHETIC TECHNOLOGY				SN		GWM Spare Parts Numbers available on the TDS or the labels	
TOTAL QUARTZ 9000	5W-40	ADVANCED SYNTHETIC TECHNOLOGY			A3/B4	SN/CF		PSA B71 2296 - Renault RN 0700/0710 MB-Approval 229.5 - VW 502.00/505.00 Porsche A40	Chrysler MS-12991 Fiat 9.55535-M2
TOTAL QUARTZ 9000 ENERGY	5W-40	ADVANCED SYNTHETIC TECHNOLOGY			A3/B4	SN/CF		MB-Approval 229.5 - VW 502.00/505.00 Porsche A40	Chrysler MS-12991 Fiat 9.55535-M2
TOTAL QUARTZ 9000 FGO	5W-40	ADVANCED SYNTHETIC TECHNOLOGY			A3/B5	SP		Renault RN0700/0710 - VW 502.00/505.00 MB-Approval 229.3	Chrysler MS-12991 Fiat 9.55535-M2
TOTAL QUARTZ 9000 SN	5W-50	ADVANCED SYNTHETIC TECHNOLOGY				SN/CF			
TOTAL QUARTZ 9000 FUTURE XT	10W-30	ADVANCED SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A		
TOTAL QUARTZ RACING	10W-50	ADVANCED SYNTHETIC TECHNOLOGY			A3/B4	SN/CF			
TOTAL QUARTZ RACING	10W-60	ADVANCED SYNTHETIC TECHNOLOGY				SN/CF			Suitable for BMW M-Series



# TOTAL QUARTZ 7000 PRODUCTS 7000

TOTAL QUARTZ 7000 I	PRODUCTS	FEAT	URES		INTERNA	TIONAL SPECIFI	CATIONS	OEM HOMOLOG	ATIONS
COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	FUEL ECONOMY	LOW SAPS	ACEA	API	ILSAC	APPROVALS	MEETS THE REQUIREMENTS OF
TOTAL QUARTZ 7000 FUTURE GF6	5W-20	SYNTHETIC TECHNOLOGY	FUELL			SP	GF-6A		
TOTAL QUARTZ 7000 FUTURE XT	5W-20	SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A	Ford WSS-M2C960-A1	
TOTAL QUARTZ 7000 FUTURE GF6	5W-30	SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A		
TOTAL QUARTZ 7000 FUTURE XT	5W-30	SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A	Ford WSS-M2C961-A1	
TOTAL QUARTZ 7000 FGO	5W-40	SYNTHETIC TECHNOLOGY	FUEL		A3/B4	SN/CF		MB-Approval 229.3 Volkswagen 502.00/505.00 Renault RN 0700	
TOTAL QUARTZ 7000 FUTURE GF6	10W-30	SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A		
TOTAL QUARTZ 7000 FUTURE XT	10W-30	SYNTHETIC TECHNOLOGY	FUEL			SP	GF-6A		
TOTAL QUARTZ 7000 DIESEL CI-4	10W-30	SYNTHETIC TECHNOLOGY				CI-4			
TOTAL QUARTZ 7000	10W-40	SYNTHETIC TECHNOLOGY			A3/B4	SN/CF		PSA B71 2300 (backward compatible PSA B71 2294) VW 501.01/505.00 Renault RN 0700/0710	MB 229.3 Fiat 9.55535-G2
TOTAL QUARTZ 7000	10W-40	SYNTHETIC TECHNOLOGY			A3/B4	SN/CF		PSA B71 2300 (backward compatible PSA B71 2294) VW 501.01/505.00 Renault RN 0700/0710	MB 229.1 Fiat 9.55535-G2
TOTAL QUARTZ 7000 ENERGY	10W-40	SYNTHETIC TECHNOLOGY			A3/B4	SN/CF		VW 501.01/505.00	MB 229.3 Fiat 9.55535-G2

# TOTAL QUARTZ 7000 PRODUCTS (7000)

TOTAL QUARTZ 7000 I	PRODUCTS	FEAT	INTERNA	FIONAL SPECIFIC	CATIONS	OEM HOMOLOGATIONS			
COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	FUEL ECONOMY	LOW SAPS	ACEA	API	ILSAC	APPROVALS	MEETS THE REQUIREMENTS OF
TOTAL QUARTZ 7000 DIESEL	10W-40	SYNTHETIC TECHNOLOGY			A3/B4	SN/CF		PSA B71 2300 (backward compatible PSA B71 2294) VW 501.01/505.00 Renault RN 0700/0710	MB 229.3 Fiat 9.55535-G2
TOTAL QUARTZ 7000 DIESEL S	10W-40	SYNTHETIC TECHNOLOGY			A3/B4	SN/CF		PSA B71 2300 (backward compatible PSA B71 2294) VW 501.01/505.00 Renault RN 0700/0710	MB 229.1 Fiat 9.55535-G2
TOTAL QUARTZ 7000 DIESEL T	10W-40	SYNTHETIC TECHNOLOGY			A3/B4	SN/CF		MB-Approval 229.3	
TOTAL QUARTZ 7000 SN	10W-40	SYNTHETIC TECHNOLOGY				SN/(CF)			
TOTAL QUARTZ 7000	15W-50	SYNTHETIC TECHNOLOGY			A3/B4	SN/CF		VW 501.01/505.00	MB 229.1
TOTAL QUARTZ 7000 SN	15W-50	SYNTHETIC TECHNOLOGY				SN/(CF)			



# TOTAL QUARTZ 5000 PRODUCTS

TOTAL QUARTZ 5000 I	PRODUCTS	FEA	TURES		INTERNA	TIONAL SPECIFI	CATIONS	ОЕМ НО	MOLOGATIONS
COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	FUEL ECONOMY	LOW SAPS	ACEA	API	ILSAC	APPROVALS	MEETS THE REQUIREMENTS OF
TOTAL QUARTZ 5000 FUTURE XT	5W-20	HIGH PERFORMANCE TECHNOLOGY	FUEL			SP	GF-6A	Ford WSS-M2C960-A1	
TOTAL QUARTZ 5000 FUTURE GF6	5W-30	HIGH PERFORMANCE TECHNOLOGY	FUEL			SP	GF-6A		
TOTAL QUARTZ 5000 FUTURE XT	5W-30	HIGH PERFORMANCE TECHNOLOGY	FUEL			SP	GF-6A	Ford WSS-M2C961-A1	
TOTAL QUARTZ 5000 FUTURE GF6	10W-30	HIGH PERFORMANCE TECHNOLOGY	FUEL			SP	GF-6A		
TOTAL QUARTZ 5000 FUTURE XT	10W-30	HIGH PERFORMANCE TECHNOLOGY	FUEL			SP	GF-6A		
TOTAL QUARTZ 5000 SL	10W-30	HIGH PERFORMANCE TECHNOLOGY				SL/(CF)			
TOTAL QUARTZ 5000 SP	10W-40	HIGH PERFORMANCE TECHNOLOGY				SP			
TOTAL QUARTZ 5000 SN	10W-40	HIGH PERFORMANCE TECHNOLOGY				SN/(CF)			
TOTAL QUARTZ 5000	15W-40	HIGH PERFORMANCE TECHNOLOGY			A3/B3	SL/CF			MB 229.1 PSA B71 2295 VW 501.01/505.00
TOTAL QUARTZ 5000 DIESEL	15W-40	HIGH PERFORMANCE TECHNOLOGY			A3/B3	SL/CF			MB 229.1 PSA B71 2295 VW 501.01/505.00
TOTAL QUARTZ 5000 SN	15W-40	HIGH PERFORMANCE TECHNOLOGY				SN/(CF)			
TOTAL QUARTZ 5000 SL	15W-40	HIGH PERFORMANCE TECHNOLOGY				SL/(CF)			

## TOTAL QUARTZ 5000 PRODUCTS 5000

TOTAL QUARTZ 5000 PRODUCTS FEATURES			INTERNA	TIONAL SPECIFI	CATIONS	OEM HOMOLOGATIONS			
COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	FUEL ECONOMY	LOW SAPS	ACEA	API	ILSAC	APPROVALS	MEETS THE REQUIREMENTS OF
TOTAL QUARTZ 5000 DIESEL CI-4	15W-40	HIGH PERFORMANCE TECHNOLOGY				CI-4			
TOTAL QUARTZ 5000 SN	15W-50	HIGH PERFORMANCE TECHNOLOGY				SN/(CF)			
TOTAL QUARTZ 5000	20W-50	HIGH PERFORMANCE TECHNOLOGY			A3/B3	SL/CF			MB 229.1 PSA B71 2295 VW 501.01/505.00
TOTAL QUARTZ 5000 SP	20W-50	HIGH PERFORMANCE TECHNOLOGY				SP			
TOTAL QUARTZ 5000 SN	20W-50	HIGH PERFORMANCE TECHNOLOGY				SN/(CF)			
TOTAL QUARTZ 5000 SL	20W-50	HIGH PERFORMANCE TECHNOLOGY				SL/(CF)			



# TOTAL QUARTZ 4000 AND TOTAL QUARTZ 3000 PRODUCTS





TOTAL QUARTZ 4000 PRODUCTS		FEATURES			INTERNATIONAL SPECIFICATIONS		OEM HOMOLOGATIONS		
COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	FUEL ECONOMY	LOW SAPS	ACEA	API	APPROVALS	MEETS THE REQUIREMENTS OF	
TOTAL QUARTZ 4000 SM	5W-30 10W-30 10W-40	MULTI-GRADE ENGINE OIL				SM, SL/(CF)			
TOTAL QUARTZ 4000 SL	20W-50	MULTI-GRADE ENGINE OIL				SL/(CF)			
TOTAL QUARTZ 4000 SL	SAE 40 SAE 50	MONO-GRADE ENGINE OIL				SL/(CF)			
TOTAL QUARTZ DIESEL 4000 CF-4	10W-30	MULTI-GRADE ENGINE OIL				CF-4			
TOTAL QUARTZ DIESEL 4000 CF-4	20W-50	MULTI-GRADE ENGINE OIL				CF-4, SG			

TOTAL QUARTZ 3000 PRODUCTS		FEATURES			INTERNATIONAL SPECIFICATIONS		OEM HOMOLOGATIONS		
COMMERCIAL Product Name	VISCOSITY GRADE	TECHNOLOGY	FUEL ECONOMY	LOW SAPS	ACEA	API	APPROVALS	MEETS THE REQUIREMENTS OF	
TOTAL QUARTZ 3000 SJ	20W-50	MULTI-GRADE ENGINE OIL				SJ/CF			
TOTAL QUARTZ 3000 SG	20W-50	MULTI-GRADE ENGINE OIL				SG/CF			
TOTAL QUARTZ 3000 DIESEL	SAE 40	MONO-GRADE ENGINE OIL				CF, SF			

## **TOTAL QUARTZ RACING PRODUCTS**

TOTAL QUARTZ RACING PRODUCTS		FEATURES			INTERNATIONAL SPECIFICATIONS			OEM HOMOLOGATIONS		
COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	FUEL ECONOMY	LOW SAPS	ACEA	API	ILSAC	APPROVALS	MEETS THE REQUIREMENTS OF	
TOTAL QUARTZ INEO XTRA DYNAMICS	0W-20	ADVANCED SYNTHETIC TECHNOLOGY	FUEL	PARTICULATE FILTER	C5	SN-RC	GF-5	ASTON MARTIN Twin Turbo V12 engines: Approved for factory fill and service fill BMW LL-17 FE+ (backward compatible BMW LL-14FE+) Jaguar Land Rover STJLR.51.5122	Jaguar Land Rover STJLR.51.5122 Suitable for Ford WSS-M2C952-A1	
TOTAL QUARTZ 9000 ENERGY	0W-40	ADVANCED SYNTHETIC TECHNOLOGY			A3/B4	SN/CF		ASTON MARTIN: Approved for 4.0L TwinTurbo V8 & 6.0L V12 Naturally aspirated engines MB-Approval 229.5 PORSCHE A40 VW 502.00/505.00 FORD WSS-M2C 937-A		
TOTAL QUARTZ INEO RACING	10W-60	ADVANCED SYNTHETIC TECHNOLOGY		PARTICULATE FILTER	C3	SN/CF		ASTON MARTIN V8 naturally aspirated engines: Service fill approved	BMW M-Series	
TOTAL QUARTZ RACING	10W-50	ADVANCED SYNTHETIC TECHNOLOGY			A3/B4	SN/CF				
TOTAL QUARTZ  RACING	10W-60	ADVANCED SYNTHETIC TECHNOLOGY				SN/CF				



# TOTAL CLASSIC, THE GUARANTEED QUALITY



TOTAL CLASSIC is a high-performance engine oil brand, designed to meet international specifications along with stringent requirements of car manufacturers.

TOTAL CLASSIC, product offer adapted to all passenger car brands.

TOTAL CLASSIC by Total Lubrifiants is the guarantee of high-quality products: CLASSIC, the guaranteed quality.



## TOTAL CLASSIC,

RANGE ARCHITECTURE

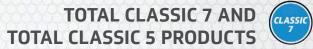
- TOTAL CLASSIC 9
  Advanced Synthetic technology
- 7 TOTAL CLASSIC 7
  Synthetic technology
- TOTAL CLASSIC 5
  Mineral technology





# TOTAL CLASSIC 9 PRODUCTS

	TOTAL CLASSIC PRODUCTS		FEATURES	EATURES INTERNATIONAL SPECIFICATI		NS PERFORMANCES	
RANGE	COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	ACEA	API	OEM SPECIFICATIONS*	
CLASSIC 9	CLASSIC 9 0W-30	0W-30	ADVANCED SYNTHETIC TECHNOLOGY	C1		PSA B71 2312 PSA B71 2302	
CLASSIC 9	CLASSIC 9 5W-30	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	A5/B5	SL/CF	Ford WSS-M2C913-D Ford WSS-M2C913-C	
CLASSIC 9	CLASSIC 9 C1 5W-30	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	C1		Ford WSS-M2C934-B	
CLASSIC 9	CLASSIC 9 C2 5W-30	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	C2		PSA B71 2290	
CLASSIC 9	CLASSIC 9 C2-C3 5W-30	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	C2, C3	SN/CF	MB-229.52 -GM Dexos 2 Opel / Vauxhall 0V0401547	
CLASSIC 9	CLASSIC 9 C3 5W-30	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	C3	SN PLUS/CF	BMW LL-04 MB-229.52 Chrysler MS-11106 GM Dexos 2 Opel / Vauxhall OV0401547 Suitable for VW 505.00/505.01 Suitable for Hyundai Kia Motors Corporation	
CLASSIC 9	CLASSIC 9 C4 5W-30	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	C4		Renault RN 0720 - MB-226.51 MB-229.51- FIAT 9.55535-S4	
CLASSIC 9	CLASSIC 9 LL 5W-30	5W-30	ADVANCED SYNTHETIC TECHNOLOGY	C3	SN/CF	BMW LL-04 - MB-229.51 Porsche C30 - VW 504.00/507.00	
CLASSIC 9	CLASSIC 9 GF5 5W-30	5W-30	ADVANCED SYNTHETIC TECHNOLOGY		SN/ (CF) ILSAC GF-5		
CLASSIC 9	CLASSIC 9 5W-40	5W-40	ADVANCED SYNTHETIC TECHNOLOGY	A3/B4	SN/CF	PSA B71 2296 - MB-229.5 - VW 502.00/505.00 Renault RN 0700/0710 - Fiat 9.55535-M2 Chrysler MS-12991	
CLASSIC 9	CLASSIC 9 C3 5W-40	5W-40	ADVANCED SYNTHETIC TECHNOLOGY	C3	SN/CF	MB-229.51 - Fiat 9.55535-S2 Ford WSS-M2C917-A - GM Dexos 2 VW 505.00/505.01	







	TOTAL CLASSIC PRODUCTS		FEATURES	INTERNATIONA	L SPECIFICATIONS	PERFORMANCES
RANGE	COMMERCIAL PRODUCT NAME	VISCOSITY GRADE	TECHNOLOGY	ACEA	API	OEM SPECIFICATIONS*
CLASSIC 7	CLASSIC 7 10W-40	10W-40	SYNTHETIC TECHNOLOGY	A3/B4	SN/CF	MB-229.1 PSA B71 2300 and 2294 Renault RN 0700/0710 VW 501.01/505.00
CLASSIC 5	CLASSIC 5 GF5 5W-30	5W-30	MINERAL TECHNOLOGY		SN/ (CF) ILSAC GF-5	
CLASSIC 5	CLASSIC 5 SL 10W-40	10W-40	MINERAL TECHNOLOGY		SL/(CF)	
CLASSIC 5	CLASSIC 5 15W-40	15W-40	MINERAL TECHNOLOGY	A3/B3	SL/CF	
CLASSIC 5	CLASSIC 5 SL 15W-40	15W-40	MINERAL TECHNOLOGY		SL/(CF)	
CLASSIC 5	CLASSIC 5 SL 15W-50	15W-50	MINERAL TECHNOLOGY		SL/(CF)	
CLASSIC 5	CLASSIC 5 20W-50	20W-50	MINERAL TECHNOLOGY	A3/B3	SL/CF	
CLASSIC 5	CLASSIC 5 SL 20W-50	20W-50	MINERAL TECHNOLOGY		SL/(CF)	
CLASSIC 5	CLASSIC 5 SF SAE 40	<b>SAE 40</b>	MINERAL TECHNOLOGY		SF/(CD)	
CLASSIC 5	CLASSIC 5 SL SAE 40	SAE 40	MINERAL TECHNOLOGY		SL/(CF)	
CLASSIC 5	CLASSIC 5 SF SAE 50	SAE 50	MINERAL TECHNOLOGY		SF/(CD)	
CLASSIC 5	CLASSIC 5 SL SAE 50	SAE 50	MINERAL TECHNOLOGY		SL/(CF)	

\*Meets the requirements of

## **TOTAL HI-PERF**

OTAL HI-PERF, CONTINUOUS SAFETY	PAGE 34
OTAL HI-PERF, STATE-OF-THE-ART TECHNOLOGY	PAGE 35
OTAL HI-PERF, 2 SUB-RANGES	PAGE 35
OTAL HI-PERF RANGE ARCHITECTURE	
TOTAL HI-PERF 4-STROKE MOTORCYCLE	PAGE 36
TOTAL HI-PERF 4-STROKE SCOOTER	PAGE 38
TOTAL HI-PERF 2-STROKE MOTORCYCLE	PAGE 39
TOTAL HI-PERF 2-STROKE SCOOTER	PAGE 39
TOTAL HI-PERF TRANSMISSION OIL	PAGE 39





## **MOTORCYCLE OIL**

# TOTAL HI-PERF, CONTINUOUS SAFETY





It's not just the engine and the gearbox that need the right lubricants, but also the chain and the fork of a motorcycle. Total offers a complete range which meets the need of daily used two-wheelers and all other engine types. This range complies with the most stringent international standards.

The TOTAL HI-PERF range derives directly from research aimed at riding performance and has been validated by major motorcycle manufacturers.

- In the engine: The products in the TOTAL range provide protection for all engine components: pistons, cams, cylinder sleeves, valve train and crankshaft.

  The engine stays clean and runs optimally.
- In the clutch: TOTAL oils provide a uniform film between the clutch discs. They prevent malfunction and keep discs clean.
- In the gearbox: TOTAL technology provides resistance to extreme pressure along with optimum gearbox protection.

## TOTAL HI-PERF,

# STATE-OF-THE-ART TECHNOLOGY



- Enhanced Deposit Control
- Enhanced Oxidation Control
- Enhanced Wear Protection
- Enhanced Clutch Friction Durability



- Reduced Frictional Losses
- No Compromise On Clutch Operation



- Controlled Oil Sump Temperature
- Rapid Thermal Load Spread

## **TOTAL HI-PERF, 2 SUB-RANGES**

- LUBRICANTS FOR 4-STROKE ENGINES (MOTORCYCLE AND SCOOTER): a range developed specifically for 4-stroke engines.
- LUBRICANTS FOR 2-STROKE ENGINES (MOTORCYCLE AND SCOOTER): a special range for 2-stroke motorcycle and scooter engines.

# 2-STROKE OR 4-STROKE, WHAT IS THE DIFFERENCE?

In order to choose the right lubricant, it is important to know what type of engine you have. This is because 2-stroke and 4-stroke engines need different oil types due to their different lubrication systems. Lubricants for 2-stroke and 4-stroke engines are different and not interchangeable.

	2 - STROKE ENGINES	4 - STROKE ENGINES
NUMBER OF CYCLES	2	4
LUBRIFICATION TYPE	LUBRICANT CONSUMED	LUBRICANT RECYCLED



# MCO, MOTORCYCLE OIL

#### **4-STROKE MOTORCYCLE**

COMMERCIAL PRODUCT NAME	GRADE	APPLICATION	DURABILITY	FUEL ECO	COOLING EFFECT	MANUFACTURER SPECIFICATIONS
TOTAL HI-PERF 4T 900	10W-40	4-STROKE ENGINE OIL	DURABILITY			
TOTAL HI-PERF 4T 900 FE	10W-40	4-STROKE ENGINE OIL	DURABILITY	FUEL		
TOTAL HI-PERF 4T 900	10W-30	4-STROKE ENGINE OIL	DURABILITY			
TOTAL HI-PERF 4T 900 FE	10W-30	4-STROKE ENGINE OIL	DURABILITY	FUEL		
TOTAL HI-PERF 4T 900	10W-60	4-STROKE ENGINE OIL	DURABLITY			
TOTAL HI-PERF 4T 900	5W-40	4-STROKE ENGINE OIL	DIRABILITY			CFMOTO recommends TOTAL
TOTAL HI-PERF 4T 900	10W-50	4-STROKE ENGINE OIL	DIMABILITY			CFMOTO recommends TOTAL
TOTAL HI-PERF 4T 700	10W-30	4-STROKE ENGINE OIL	DURABULTY			
TOTAL HI-PERF 4T 700	10W-40	4-STROKE ENGINE OIL	DIFFAULTY			CFMOTO recommends TOTAL
TOTAL HI-PERF 4T 700	15W-50	4-STROKE ENGINE OIL	DURABILITY			
TOTAL HI-PERF 4T 700	20W-60	4-STROKE ENGINE OIL	DURABILITY			

#### **4-STROKE MOTORCYCLE**

COMMERCIAL PRODUCT NAME	GRADE	APPLICATION	DURABILITY	FUEL ECO	COOLING EFFECT	MANUFACTURER SPECIFICATIONS
TOTAL HI-PERF 4T 500	15W-50	4-STROKE ENGINE OIL	DURABILITY BIPROVER			
TOTAL HI-PERF 4T 500	20W-40	4-STROKE ENGINE OIL	BURABILITY MPROVER			
TOTAL HI-PERF 4T 500 CE	20W-40	4-STROKE ENGINE OIL	BURABILITY MPROVER		COOLING CHARLES	
TOTAL HI-PERF 4T 500 CE	20W-50	4-STROKE ENGINE OIL	BURABILITY MPROVER		COOLING EPPECT	
TOTAL HI-PERF 4T 500 (SN)	20W-50	4-STROKE ENGINE OIL	BURABILITY MPROVER			
TOTAL HI-PERF 4T 500	10W-30	4-STROKE ENGINE OIL	DURAILLTY MPROVEN			
TOTAL HI-PERF 4T 500 (SL)	20W-50	4-STROKE ENGINE OIL	BURABILITY MPROVER			
TOTAL HI-PERF 4T 500	10W-40	4-STROKE ENGINE OIL	DURABILITY BAPROVER			
TOTAL HI-PERF 4T 500	15W-40	4-STROKE ENGINE OIL	DURABILITY			



# MCO, MOTORCYCLE OIL

### **4-STROKE SCOOTER**

COMMERCIAL PRODUCT NAME	GRADE	APPLICATION	DURABILITY	FUEL ECO	COOLING EFFECT
TOTAL HI-PERF 4T 900 SCOOTER FE	10W-30	4-STROKE ENGINE OIL	RUMABULTY	FUEL	
TOTAL HI-PERF 4T 900 SCOOTER FE	5W-40	4-STROKE ENGINE OIL	PANAGE TY NAVANOVED	FUEL	
TOTAL HI-PERF 4T 900 SCOOTER	5W-40	4-STROKE ENGINE OIL	PANAGUETY NAVAGORETY		
TOTAL HI-PERF 4T 700 SCOOTER	10W-40	4-STROKE ENGINE OIL	DOMASHUTY NAVAGORET		
TOTAL HI-PERF 4T 700 SCOOTER CE	10W-40	4-STROKE ENGINE OIL	EMARKUTY MARKOVETY		COOLING
TOTAL HI-PERF 4T 500 SCOOTER	10W-30	4-STROKE ENGINE OIL	PRIMARILY		
TOTAL HI-PERF 4T 500 SCOOTER	20W-40	4-STROKE ENGINE OIL	NAMA ILLIY MAPROVEN		

#### 2-STROKE MOTORCYCLE

COMMERCIAL PRODUCT NAME	GRADE	APPLICATION	DURABILITY	FUEL ECO	COOLING EFFECT
TOTAL HI-PERF 2T 900		2-STROKE ENGINE OIL			
TOTAL HI-PERF 2T 700		2-STROKE ENGINE OIL			
TOTAL HI-PERF 2T 500		2-STROKE ENGINE OIL			

#### 2-STROKE SCOOTER

COMMERCIAL PRODUCT NAME	GRADE	APPLICATION	DURABILITY	FUEL ECO	COOLING EFFECT
TOTAL HI-PERF 2T 700 SCOOTER		2-STROKE ENGINE OIL			

#### TRANSMISSION OIL

COMMERCIAL PRODUCT NAME	GRADE	APPLICATION	MANUFACTURER SPECIFICATIONS
TOTAL HI-PERF GEAR OIL	80W-90	2-STROKE ENGINE OIL	CFMOTO recommends TOTAL



## **TOTAL NEPTUNA**

TOTAL NEPTUNA	PAGE 42
TOTAL NEPTUNA RANGE	
NEPTUNA SPEEDER 10W-30	PAGE 43
NEPTUNA 2T BIO-JET	PAGE 43
NEPTUNA 2T SUPER SPORT	PAGE 43
NEPTUNA 2T	PAGE 43
NEPTUNA GEAR	PAGE 43





## **LEISURE NAVIGATION MOTOR OIL**

# TOTAL NEPTUNA, ENGINE & TRANSMISSION OILS



#### **TOTAL NEPTUNA PROPOSES A RANGE OF LUBRICANTS:**

Suited to inboard and outboard 4-stroke engines, offering cutting-edge technology for maximum performance.

Equally suited to sports and leisure 2-stroke engines, offering high performance and reliability for your engine.

TOTAL NEPTUNA, premium products and tailor-made solutions to increase your operational efficiency.





#### **TOTAL NEPTUNA PRODUCTS**

COMMERCIAL PRODUCT NAME	INTERNATIONAL STANDARDS	MANUFACTURER SPECIFICATIONS
NEPTUNA SPEEDER 10W-30	API SM NMMA FC-W (CAT)®	Suitable for:  BOMBARDIER  EVINRUDE  HONDA  JOHNSON  MERCURY SEA-DOO  SUZUKI YAMAHA
NEPTUNA 2T BIO-JET	API TC NMMA TC-W3®	Manufacturer Approval:  MSR Engines: JETSURF MOTORIZED SURFBOARDS  Suitable for:  BOMBARDIER  EVINRUDE  JOHNSON  KAWASAKI  MERCURY  SEA-DOO  SUZUKI  YAMAHA
NEPTUNA 2T SUPER SPORT	API TC NMMA TC-W3®	Suitable for:  JOHNSON  MARINER  MERCURY SUZUKI YAMAHA
NEPTUNA 2T	API TC NMMA TC-W®	
NEPTUNA GEAR 80W-90	API GL-5	



## **TOTAL RUBIA**

OTAL RUBIA, APPROVED BY TRUCK MANUFACTURERS	PAGE 46
OTAL RUBIA, TAKES CARE OF YOUR ENGINE	PAGE 47
OTAL RUBIA RANGE ARCHITECTURE	PAGE 48
TOTAL RUBIA OPTIMA	PAGE 50
TOTAL RUBIA TIR	PAGE 51
TOTAL RUBIA FLEET HD	PAGE 52
TOTAL RUBIA GAS	PAGE 53
TOTAL RUBIA S	PAGE 53





## **HEAVY-DUTY ON-ROAD MOTOR OIL**

# TOTAL RUBIA, APPROVED BY TRUCK MANUFACTURERS





TOTAL RUBIA products are tested and approved more than 200 times by Major Heavy Vehicle Manufacturers. These product approvals certificate that TOTAL RUBIA products are 100% compatible with the engine technology of the related manufacturers.

Premium products and tailor-made solutions to increase your operational efficiency. Total increases uptime and lower maintenance costs, thanks to its TOTAL RUBIA premium engine oil range, tested in real world conditions during fleet tests and approved by Heavy Vehicle Manufacturers, and its ANAC Fleet Management System, based on used oil analysis supported

by its technical services team on the field.

Total develops tailor-made lubricants in its state of art R&D center in France. Products are developed in close collaboration with heavy vehicle manufacturers in order to match their sophisticated and most demanding technical requirements.



For TOTAL RUBIA range in its entirety

# **TOTAL RUBIA,**TAKES CARE OF YOUR ENGINE



## TOTAL RUBIA OPTIMA INNO-BOOST TECHNOLOGY

TOTAL RUBIA OPTIMA products offer excellent engine and after treatment systems protection, with extended drain intervals, for the latest, cleaner engines.

Formulated with **Inno-Boost Technology,** it incorporates right combination of strong antioxidant molecules. These active molecules inhibit the radical formation and keep hydrocarbon chains intact. As a result, the engine oil viscosity remains stable and engine oil keeps its properties for longer time.



## TOTAL RUBIA FLEET HD CLEAN-SHIELD TECHNOLOGY

TOTAL RUBIA FLEET HD Range is designed for high mileage trucks operating in very difficult road and fuel conditions. TOTAL RUBIA FLEET HD products exceed the performance standards defined by the American Petroleum Institute (API) and the European Automobile Manufacturers' Association (ACEA) and meet the requirements of major Heavy Vehicle Manufacturers.

Thanks to their **Clean-Shield Technology,** TOTAL RUBIA FLEET HD products keep engines cleaner even in the presence of hi-sulphur fuels, ensuring engine protection against mechanical wear and making engines run more smoothly for a longer time.



## TOTAL RUBIA TIR PRO-EFFICIENTTECHNOLOGY

TOTAL RUBIA TIR products are approved by Heavy Vehicle Manufacturers for the great majority of the existing truck park, with a very wide coverage from most demanding EURO VI engines to conventional EURO III engines.

The **Pro-Efficcient Technology**, developed by Total Research and Development teams, protects and improves the efficiency of professional engines by ensuring reduced mechanical wear and extended oil drain intervals. Meaning longer engine life, less breakdowns and reduced maintenance costs. In other words, increased efficiency and profitability for your business.



## TOTAL RUBIA GAS ANTI-NITRATION TECHNOLOGY

TOTAL RUBIA GAS with **Anti-Nitration technology** uses a combination of high-quality base oils and antioxidants in order to reduce nitrogen oxidation problems on CNG and LNG engines.

Additionally, TOTAL RUBIA GAS high performance detergents help keep spark plugs clean and optimize engine durability.



## **HEAVY-DUTY ON-ROAD MOTOR OIL**

# **TOTAL RUBIA,**RANGE ARCHITECTURE

## TOTAL RUBIA OPTIMA

- Increased uptime and lower maintenance costs
- Exceed API CK-4 and FA-4 specifications
- Longer engine oil life
- Excellent equipment longevity

#### **UP TO 76%**

IMPROVEMENT AGAINST OIL VISCOSITY INCREASE\*

\*compared to API CK-4 industry limits





#### TOTAL RUBIA TIR

- Increased uptime and lower maintenance costs
- Outstanding protection against mechanical wear
- Longer Engine Life
- Lower oil consumption

#### **UP TO 81%**

LESS MECHANICAL WEAR\*

\*compared to ACEA E4 industry limits.





#### TOTAL RUBIA FLEET HD

- Keeps engine parts clean
- Exceeds API and ACEA Specifications
- Longer engine life
- Lower oil consumption

#### **UP TO 67%**

LESS DEPOSIT FORMATION\*

\*compared to API CH-4 industry limits.





# **TOTAL RUBIA,**RANGE ARCHITECTURE

## TOTAL RUBIA GAS

In line with its development strategy in Natural Gas Vehicle Fuel Sector, TOTAL has developed an entire range of engine oils satisfying the special requirements of Natural Gas Engines: Compressed Natural Gas (CNG) and Liquefied Natural Gas (LNG).

TOTAL RUBIA GAS is the engine oil range specially developed for Natural Gas Engines (CNG and LNG) widely used in urban transport especially in buses, deliveries and waste collecting vehicles.





#### **TOTAL RUBIA S**

Monograde and mineral oil (except for TOTAL RUBIA S 20W-20) for all turbocharged or normally aspirated engines in trucks and buses.

Also suitable for gearboxes, torque converters, hydraulic systems when the manufacturer requires a motor oil of the appropriate quality for these applications.





## **HEAVY-DUTY ON-ROAD MOTOR OIL**

## TOTAL RUBIA OPTIMA PRODUCTS OPTIMA

COMMERCIAL PRODUCT NAME	GRADE	LOW SAPS	FUEL ECONOMY	INTERNATIONAL SPECIFICATIONS	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS OF
TOTAL RUBIA OPTIMA 4100 XFE	5W-30	PARTICULATE PLATER	FUEL ECONOMY	API FA-4	<ul> <li>Volvo VDS-5</li> <li>Renault Trucks RLD-5</li> <li>Mack E0-S 5</li> <li>MB-Approval 228.61</li> </ul>	
TOTAL RUBIA OPTIMA 2600 XFE	5W-30	PARTICULATE FILTER	FUEL	API FA-4	MB-Approval 228.61	• Cummins CES 20087
TOTAL RUBIA OPTIMA 2100 XFE	10W-30	PARTICULATE FILTER	FUEL	API FA-4	<ul><li>Cummins CES 20087</li><li>DDC DFS 93K223</li><li>FORD WSS-M2C 214-B1</li></ul>	
TOTAL RUBIA OPTIMA 1100 FE	10W-30	PARTICULAR PRINCIPAL PRINC	ECONONY	ACEA E7, E9 API CK-4/CJ-4/CI-4+/CI- 4/CH-4	<ul> <li>Cummins CES 20086</li> <li>DDC DFS 93K222</li> <li>Mack E0-S 4.5</li> <li>MB-Approval 228.31</li> <li>Renault Trucks RLD-3</li> <li>Volvo VDS-4.5</li> <li>FORD WSS-M2C 171-F1</li> </ul>	• DAF • IVECO
TOTAL RUBIA OPTIMA 1100 (Also suitable for CNG/LNG Engines)	15W-40	AND THE PROPERTY OF THE PROPER		ACEA E7, E9 API CK-4/CJ-4/CI-4+/CI- 4/CH-4/SN	<ul> <li>Cummins CES 20086</li> <li>DDC DFS 93K222</li> <li>Mack EO-S 4.5</li> <li>MB-Approval 228.31</li> <li>Renault Trucks RLD-3</li> <li>Volvo VDS-4.5</li> <li>FORD WSS-M2C 171-F1</li> </ul>	• DAF • IVECO

# TOTAL RUBIA TIR PRODUCTS (TIR)



COMMERCIAL PRODUCT NAME	GRADE	LOW SAPS	FUEL ECONOMY	INTERNATIONAL SPECIFICATIONS	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS OF
TOTAL RUBIA TIR 9900 FE (Also suitable for CNG/LNG Engines)	5W-30	PARTITION ATT	ECONOMY	ACEA E4, E6, E7, E9 API CJ-4/CI-4/CH-4	<ul> <li>Mack EO-O Premium Plus</li> <li>MAN M 3477/M 3677/ M3271-1</li> <li>MB- Approval 228.51</li> <li>Renault Trucks RLD-3</li> <li>Volvo VDS-4</li> <li>Scania LDF-4</li> </ul>	• Cummins CES 20081 • DAF • IVECO TLS E6
TOTAL RUBIA TIR 9900 (Also suitable for CNG/LNG Engines)	10W-40	PARTE AT		ACEA E4, E6, E7, E9 API CJ-4/CI-4/CH-4	<ul> <li>Cummins CES 20081</li> <li>Detroit Diesel Power Guard 93K218</li> <li>Mack EO-0 Premium Plus</li> <li>MB-Approval 228.51</li> <li>Renault Trucks RLD-3</li> <li>Volvo VDS-4</li> <li>Scania Low Ash</li> </ul>	• DAF • MAN M 3575/M 3477/M3271- • IVECO TLS E9
TOTAL RUBIA TIR 9200 FE	5W-30		ECOHOMA	ACEA E4, E7	<ul> <li>Mack EO-N</li> <li>MAN M 3277</li> <li>MB- Approval 228.5</li> <li>Renault Trucks RLD-2</li> <li>Scania LDF-3</li> <li>Volvo VDS- 3</li> <li>VOITH Class A</li> <li>Isuzu Recommended Lubricant (2020)</li> </ul>	• Cummins CES 20076/77 • DAF • IVECO TFE
TOTAL RUBIA TIR 8900 FE (Also suitable for CNG/LNG Engines)	10W-30	PANTEDIA ATE PANTEDIA ATE	UIL ECONOMY	ACEA E6, E7, E9	<ul> <li>Mack EO-O Premium Plus</li> <li>MAN M 3477/M 3271-1</li> <li>MB-Approval 228.51</li> <li>Renault Trucks RLD-3</li> <li>Volvo VDS-4</li> </ul>	• Cummins CES 20081 • DAF • IVECO
TOTAL RUBIA TIR 8900 (Also suitable for CNG/LNG Engines)	10W-40	PARTICULARE PARTICULARE PALTER		ACEA E6, E7, E9 API CJ-4/CI-4/CH-4	<ul> <li>Mack EO-O Premium Plus</li> <li>MB-Approval 228.51</li> <li>Renault Trucks RLD-3</li> <li>Volvo VDS-4</li> </ul>	<ul> <li>Cummins CES 20081</li> <li>IVECO TLS E9</li> <li>MAN M 3477/M 3271-1</li> <li>DAF</li> </ul>
TOTAL RUBIA TIR 8800	10W-40			ACEA E4, E7 API CI-4	<ul> <li>Mack EO-N</li> <li>MAN M 3277</li> <li>MB- Approval 228.5</li> <li>Renault Trucks RLD-2</li> <li>Volvo VDS-3</li> </ul>	• Cummins CES 20078



## **HEAVY-DUTY ON-ROAD MOTOR OIL**

## TOTAL RUBIA TIR PRODUCTS (TIR)

COMMERCIAL PRODUCT NAME	GRADE	LOW SAPS	FUEL ECONOMY	INTERNATIONAL SPECIFICATIONS	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS OF
TOTAL RUBIA TIR 8600	10W-40			ACEA E4, E7 API CF	<ul> <li>Mack EO-N</li> <li>MAN M 3277</li> <li>MB- Approval 228.5</li> <li>Renault Trucks RLD-2</li> <li>Scania LDF-3</li> <li>Volvo VDS-3</li> <li>VOITH Class A</li> <li>ZF TE-ML 23A</li> </ul>	<ul><li>DAF</li><li>IVECO</li><li>Renault Trucks RXD</li></ul>
TOTAL RUBIA TIR 7800	15W-40			API CI-4 PLUS/ CI-4/CH-4/ SL	<ul><li>Mack EO-N</li><li>MB- Approval 228.3</li><li>Volvo VDS-3</li></ul>	<ul> <li>Cummins CES 20078</li> <li>Caterpillar ECF-2</li> <li>Detroit Diesel Power Guard 93K214</li> <li>Tata</li> <li>Ashok Leyland</li> <li>Eicher</li> <li>MAN M 3275</li> </ul>
TOTAL RUBIA TIR 7400 FE	10W-30		FUEL ECONOMY	ACEA E7 API CI-4/CH-4	<ul> <li>MB-Approval 228.3</li> <li>Cummins CES 20078</li> <li>Volvo VDS-3</li> <li>Renault Trucks RLD-2</li> <li>Mack EO-N</li> </ul>	<ul><li>MAN M3275</li><li>Detroit Diesel DFS 93K215</li></ul>
TOTAL RUBIA TIR 7400	10W-40			ACEA A3/B3, A3/B4, E7 API CI-4/CH-4/SJ	<ul> <li>Mack EO-N</li> <li>MB- Approval 228.3/229.1</li> <li>Kamaz</li> <li>Renault Trucks RLD-2</li> <li>Volvo VDS-3</li> </ul>	• Cummins CES 20078 • MAN M 3275
TOTAL RUBIA TIR 7400	15W-40			ACEA E7 API CI-4/CH-4/SL	<ul> <li>Cummins CES 20078</li> <li>Mack EO-N</li> <li>MB-Approval 228.3</li> <li>Renault Trucks RLD-2</li> <li>Isuzu Recommended Lubricant (2020) (For transfer case only)</li> <li>Volvo VDS-3</li> </ul>	<ul> <li>MAN M 3275</li> <li>Caterpillar ECF-1-a</li> <li>IVECO T2 E7</li> <li>DAF</li> <li>Isuzu</li> <li>Scania</li> </ul>



COMMERCIAL PRODUCT NAME	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS
TOTAL RUBIA FLEET HD 500 10W-30, 15W-40, 20W-50	API CH-4/SJ	<ul> <li>Mack EO-M</li> <li>MAN M 3275</li> <li>MB-Approval 228.1</li> <li>Renault Trucks RD/RD-2</li> <li>Volvo VDS-2</li> </ul>
TOTAL RUBIA FLEET HD 400 15W-40, 20W-50	API CG-4/SH	<ul> <li>Mack EO-L</li> <li>MAN 271</li> <li>MB-Approval 228.1</li> <li>Volvo VDS</li> </ul>
TOTAL RUBIA FLEET HD 300 10W-30, 15W-40, 20W-50	API CF-4/SG	<ul><li>MAN 271</li><li>MB-Approval 228.1</li><li>Volvo VDS</li></ul>
TOTAL RUBIA FLEET HD 200 15W-40, 20W-40, 20W-50	API CF/SF	
TOTAL RUBIA FLEET HD 200 SAE 10W/30/40/50	API CF/SF	



## **HEAVY-DUTY ON-ROAD MOTOR OIL**

# TOTAL RUBIA GAS PRODUCTS GAS

COMMERCIAL PRODUCT NAME	GRADE	LOW SAPS	FUEL ECONOMY	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS
TOTAL RUBIA GAS 9M FE	10W-30	PARTOURATE PRICES	ECONONA	API CK-4 / SN	<ul> <li>Cummins CES 20092 / CES 20086</li> <li>DDC DFS93K222</li> <li>Volvo VDS-4.5</li> <li>Renault Trucks RLD-3</li> <li>Mack EO-S 4.5</li> </ul>
TOTAL RUBIA GAS 9M	15W-40	PARTICULAR PRINTERS		API CK-4 / SN	<ul> <li>Cummins CES 20092 / CES 20086</li> <li>DDC DFS93K222</li> <li>Volvo VDS-4.5</li> <li>Renault Trucks RLD-3</li> <li>Mack E0-S 4.5</li> </ul>
TOTAL RUBIA GAS 7M	15W-40	PARTICULATE PARTICULATE FILTER			• Cummins CES 20085
TOTAL RUBIA GAS 5M	15W-40	PARTICULATE FILTER			• Cummins CES 20074
TOTAL RUBIA GAS 5M	20W-50	PARTICULATE			Meets the requirements of: • Cummins CES 20074

40

**TOTAL RUBIA S** 

**50** 

API CF / SF

API CF / SF

#### **COMMERCIAL PRODUCT NAME** GRADE **INTERNATIONAL STANDARDS TOTAL RUBIA S** 10W 10W API CF / SF (Now SX 10W for Europe) **TOTAL RUBIA S** 20W-20 API CF / SF 20W-20 **TOTAL RUBIA S** 30 API CF / SF **30 TOTAL RUBIA S** 40

**50** 



## **EARTHMOVING, MINING AND QUARRYING**

EAVY-DUTY OFF-ROAD DEDICATED LUBRICANTS	PAGE 58
STAR CONCEPT	PAGE 59
TOTAL RUBIA WORKS	PAGE 62
TOTAL RUBIA SX	PAGE 64
DYNATRANS	PAGE 66
HYDRAULIC FLUIDS	PAGE 70
OTHER PRODUCTS	PAGE 72





## **HEAVY-DUTY OFF-ROAD**

## **TOTAL IS A STRONG PARTNER**

OF CHOICE FOR FUEL AND LUBRICANTS FOR ITS CONSTRUCTION AND MINING CUSTOMERS.

Total has developed dedicated range of lubricants suitable for Earthmoving equipment of world's leading manufacturers, working on Construction & Mining Sites operating under extreme temperatures & harsh Conditions.

Total continuously invests in R&D and cooperates closely with equipment manufacturers to comply with all the international standards and approvals required in this sector.

Our Tailor-made solutions for Off-Road, offers customers:

- Reducing Total cost of Ownership
- Exceptional performance that extends the components' life
- Increased Productivity & Reliability of the Equipment.



**SERVICES & DIGITAL SOLUTIONS** 



## TOTAL STAR CONCEPT

TOTAL STAR CONCEPT TP offers a complete set of exceptional performance features. It allows all the components of worksite machinery to be lubricated while still satisfying the requirements of the leading equipment manufacturers and international standards.

#### TOTAL STAR CONCEPT TP MEANS JUST TWO LUBRICANTS FOR YOUR ENTIRE FLEET OF MACHINERY.



#### THE ADVANTAGES ARE NUMEROUS:

- Less risk of stock outages
- Simpler ordering, procurement and storage of lubricants
- Less risk of product mix-ups when servicing equipment
- Lower transport costs
- Savings on servicing the management of used oil and packaging

#### **TOTAL STAR MAX FE:**

Engines / Gearboxes / Hydraulic Systems

#### TOTAL STAR TRANS:

Axles and final reduction drives / Gearboxes and immersed brakes / Limited slip differentials











TOTAL STAR FUEL ECONOMY products are specially formulated to maximize fuel economy properties without compromising on the engine protection. Our wide range of Fuel Economy solutions are suited for every application, including engines, gearboxes and axles.



#### **TOTAL STAR CONCEPT PRODUCTS**

COMMERCIAL PRODUCT NAME	GRADE	APPLICATIONS	LOW SAPS	FUEL ECONOMY	INTERNATIONAL STANDARDS	MANUFACTURER SPECIFIATIONS
TOTAL STAR MAX FE	ENGINES: 10W-30 GEARBOXES: SAE 30 HYDRAULIC FLUIDS: ISO VG 46	<ul> <li>Engines</li> <li>Gearboxes (mechanical or powershift)</li> <li>Hydraulic circuits (work or travel)</li> </ul>	PARTITION TO THE PROPERTY OF THE PARTITION TO THE PARTITI	FUEL	Engines:  API GL-4 / CK-4 / CJ-4 / CI-4 plus	Manufacturer Approvals:  • MB-Approval 228.31 • Cummins CES 20086 • Detro diesel 93K222  • Mack EO-S 4.5 • Man M 3575 • MTU Oil Category 2.1  • Renault Trucks RLD-3 • Volvo VDS-4.5 • DQC III-10 L  Meets the requirements of:  • Allison C4 / TES 439 • Komatsu Micro Clutch  • Caterpillar ECF-3 / ECF-2 / ECF-1-a / HYDO / TO-4  Suitable for:  • ZF TE-ML 07D • Case • Isuzu • Liebherr • Perkins
TOTAL STAR TRANS	80W-110	<ul> <li>Hypoid and reduction axles</li> <li>Autoblocking differentials with limited slip discs</li> <li>Oil-immersed brake systems</li> </ul>			Axles and final reduction drives:  API GL-5 LS  Gearboxes and immersed brakes:  API GL-4 API MT-1	Axles and final reduction drives Meets the requirements of: • Caterpillar FD-1 (SAE 50)  Gearboxes and immersed brakes Meets the requirements of: • Caterpillar TO-4 • Komatsu Clutch Limited slip differentials • Case • Volvo • Liebherr
TOTAL STAR TRANS FE	75W-90	<ul> <li>Hypoid and reduction axles</li> <li>Autoblocking differentials with limited slip discs</li> <li>Oil-immersed brake systems</li> </ul>		FUEL	Meets the requirements of: API GL-4 / GL-5 LS / MT-1 SAE J 2360 MIL-PRF 2105 E	Meets the requirements of:  • ZF TE-ML 05A / 05C / 07A / 16B / 16F / 17B / 1A / 21C  • NH 520B / 524A • Caterpillar FD-1 / TO-4  • JCB • Liebherr

### **TOTAL STAR CONCEPT PRODUCTS**

COMMERCIAL PRODUCT NAME	GRADE	APPLICATIONS	LOW SAPS	FUEL ECONOMY	INTERNATIONAL STANDARDS	MANUFACTURER SPECIFIATIONS
TOTAL TP STAR MAX HT	ENGINES: 15W-40 GEARBOXES: SAE 40 HYDRAULIC FLUIDS: ISO VG 68	<ul> <li>Engines</li> <li>Gearboxes (mechanical or powershift)</li> <li>Hydraulic circuits (work or travel)</li> </ul>			Engines: API CI-4 / CH-4 ACEA E7 GLOBAL DHD-1 JASO DH-1 Gearboxes: API GL-4	Engines: Meets the requirements of: Caterpillar ECF-2 • MB 228.3 • Man M3275 • MTCat 2 Cummins 20078 / 20077 / 20076 • Volvo VDS-3 Komatsu • Renault Trucks RLD-2 • New holland NH-330H Gearboxes: Meets the requirements of: Allison C4 • Caterpillar T0-4 • Komatsu Clutch Hydraulic systems: Meets the requirements of: JCMAS HK • Case MS 1230 • Komatsu H0-68
TOTAL TP STAR TRANS	80W-110	<ul> <li>Hypoid (and final reduction) axles</li> <li>Self-blocking differentials with limited slip discs</li> <li>Oil-immersed braking systems</li> </ul>			Axles and final reduction drives:  API GL-5 LS  Gearboxes and immersed brakes:  API GL-4 API MT-1	Axles and final reduction drives Meets the requirements of: • Caterpillar FD-1 (SAE 50/60)  Gearboxes and immersed brakes Meets the requirements of: • Caterpillar TO-4 • Komatsu Clutch Limited slip differentials Meets the requirements of: • Case • Volvo • Liebherr

**CROSS-CATEGORY PRODUCTS** 



## **HEAVY-DUTY OFF-ROAD**

# TOTAL RUBIA WORKS, ENGINE OILS





TOTAL RUBIA WORKS IS OUR HIGH-PERFORMANCE ENGINE LUBRICANT SPECIALLY DESIGNED FOR THE NEWEST ENGINES OF EARTHMOVING, MINING AND QUARRYING MACHINERY.

Approved by major Off-Road Manufacturers, TOTAL RUBIA WORKS products offer excellent engine and after treatment systems protection and withstands very long working periods under severe conditions and high load, with dust and heat.



**TOTAL RUBIA WORKS Fuel Economy lubricants** have been designed and fully approved to reduce and keep consistent the fuel consumption of off-highway machinery without compromising product performance. The TOTAL RUBIA WORKS range has been certified by the independent Danielson Laboratory (France) for producing excellent Fuel Economy results. TOTAL RUBIA

WORKS Fuel Economy products exceed the performance standards defined by the American Petroleum Institute (API) and the European Automobile Manufacturers' Association (ACEA) and meet the requirements of major Heavy Vehicle Manufacturers.

#### **TOTAL RUBIA WORKS PRODUCTS**

COMMERCIAL Product Name	GRADE	LOW SAPS	FUEL ECONOMY	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS OF	MEETS THE REQUIREMENTS OF
TOTAL RUBIA WORKS 4000 FE	10W-30	PARTICULARE PRATEGORA	FUEL	ACEA E7, E9 API CK-4 / CJ-4 / CI-4 plus / CI-4 / SN JASO DH-2	<ul> <li>Deutz DQC III-10 LA • Volvo VDS-4.5 • MTU Category 2.1</li> <li>Renault Trucks RLD-3 • Mack EO-S 4.5 • MB-Approval 228.31</li> <li>Cummins CES 20086 • Detroit Diesel DFS 93K222</li> </ul>	Caterpillar ECF-3 / ECF-2 / ECF-1-a	• Komatsu • Hitachi • JCB, etc.
TOTAL RUBIA WORKS 4000	15W-40	PARTEUR ATT		ACEA E7, E9 API CK-4 / CJ-4 / CI-4 plus / CI-4 / SN JASO DH-2	Deutz DQC III-10 LA	• Caterpillar ECF-3 / ECF-2	• Komatsu • Hitachi • JCB, etc.
TOTAL RUBIA WORKS 4000	10W-40	PART TO THE PART T		ACEA E7, E9 API CK-4 / CJ-4 / CI-4 plus / CI-4 / SN JASO DH-2	Deutz DQC III-10 LA	• Caterpillar ECF-3 / ECF-2 • Iveco FPT TLS E9	• Komatsu • Hitachi • JCB, etc.
TOTAL RUBIA WORKS 3000 FE	5W-30	PARTICULARE PRICES	ECONONA PIECONONA	ACEA E4, E6, E7, E9 API CJ-4 / CI-4 plus / CI-4 / CH-4 JASO DH-2	<ul> <li>Deutz DQC IV-10 LA • MTU Category 3.1 • Man M 3477 / M 3677</li> <li>MB-Approval 228.51 • Volvo VDS-4 • Mack E0-0 Premium Plus</li> <li>Renault Trucks RLD-3 • Scania LDF-4 • Deutz TTCD 6.1 L6 / 7.8</li> </ul>	• Caterpillar ECF-3 / ECF-2 / ECF-1-a • Liebherr LH 01 ENG LA • Cummins CES 20081 • Iveco FPT TLS E6 • DAF	Komatsu
TOTAL RUBIA WORKS 3000	10W-40	PARTICULATE FILTER		ACEA E6, E7, E9 API CJ-4 / Cl-4 plus / Cl-4 / CH-4 JASO DH-2	<ul> <li>Deutz DQC IV-10 LA • Renault Trucks RLD-3 • MTU Category 3.1</li> <li>Man M 3477 • Mack EO-Premium Plus • MB-Approval 228.51</li> <li>Volvo VDS-4</li> </ul>	Caterpillar ECF-3 / ECF-2 / ECF-1-a  Liebherr LH 01 ENG LA Cummins CES 20081  Iveco FPT TLS E9	• Bell • Wirtgen • Vogele, etc.
TOTAL RUBIA WORKS 1000	15W-40			ACEA E5, E7 JASO DH-1 API CI-4/CH-4/SL	<ul> <li>Cummins CES 20078 / 20077 / 20076 • Renault Trucks RLD-2</li> <li>Deutz DQC III-10 • Man M 3275-1 • Mack EO-N</li> <li>MTU Category 2 • Detroit Diesel DFS 93K215</li> <li>MB-Approval 228.3 • Volvo Trucks VDS -3</li> <li>Isuzu Orop List 2015 • Allison TES 439</li> </ul>	• Caterpillar ECF-2, ECF-1-a • Iveco FPT T2 E7	Komatsu • Hitachi • Scania     Mitsubishi • Deere • Perkins • Case     New-holland • Liebherr • JCB, etc.



## **HEAVY-DUTY OFF-ROAD**

# TOTAL RUBIA SX, ENGINE OILS







# MONOGRADE AND MINERAL OIL FOR ALL TURBOCHARGED OR NORMALLY ASPIRATED ENGINES OF CONSTRUCTION AND QUARRY MACHINERY.

Also suitable for gearboxes, torque converters, hydraulic systems when the manufacturer requires a motor oil of the appropriate quality for these applications.

### **TOTAL RUBIA SX PRODUCTS**

COMMERCIAL PRODUCT NAME	GRADE	INTERNATIONAL SPECIFICATIONS
TOTAL RUBIA SX 10W	10W	API CF / SF
TOTAL RUBIA SX 20W-20	20W-20	API CF / SF
TOTAL RUBIA SX 30	30	API CF / SF
TOTAL RUBIA SX 40	40	API CF / SF
TOTAL RUBIA SX 50	50	API CF / SF



## **HEAVY-DUTY OFF-ROAD**

### **DYNATRANS**

### TRANSMISSION AND FINAL DRIVE LUBRICANTS









## TOTAL PROPOSES A LARGE SET OF PRODUCT FOR TRANSMISSION AND FINAL DRIVE APPLICATIONS.

#### **DYNATRANS:**

DYNATRANS products are high performance lubricants for powershift transmission systems and final drives of earthmoving machinery. Approved by the equipment manufacturers, DYNATRANS ranges are developed to cover all types of applications and provide outstanding performances.

Dedicated to CO2 emissions reduction, DYNATRANS Fuel Economy products are specially formulated to maximize fuel economy properties without compromising on the engine protection. Our wide range of Fuel Economy solutions are suited for every application, including engines, gearboxes and axles

#### **FLUIDMATIC:**

FLUIDMATIC products are high performance lubricants for automatic transmission systems.

#### **TRAXIUM:**

TRAXIUM products are high performance lubricants for manual transmission and axle/differentials systems.

#### **TOTAL DYNATRANS PRODUCTS**

COMMERCIAL PRODUCT NAME	GRADE	FUEL ECONOMY	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS OF
DYNATRANS VX FE		FUEL ECONOMY	API GL-4		Suitable with:  • Massey Ferguson CMS M1145 / M1143 • John Deere JDM J20D • Kubota S-UDT  • AGCO / Allis 821 XL • Valtra G2-08 • Claas / Renault Agricultur.  • Mc Cormick HTX • Case MS 1206 / 1207 / 1209 • New Holland NH 410B / NH 410C  • CNH MAT 3505 / 3509 / 3525 / 3526 / 3540 • Ford M2C 134D FNHA 2C 201.00  • Komatsu AXO 80
DYNATRANS MPV			API GL-4	<ul> <li>Massey Ferguson CMS M1145 • Valtra G2-08</li> <li>ZF TE-ML 03E / 03L / 05F / 06P / 17E / 21F • Volvo CE WB 101</li> </ul>	<ul> <li>John Deere JDM J20C • Ford M2C 134-D / FNHA 2C 201.00 • Mc Cormick HTX</li> <li>Claas / Renault Agriculture • Massey Ferguson CMS M1143 • Allison C4</li> <li>Suitable with: • Massey Ferguson CMS M1141 / M1135 • Case MS 1207 / 1209</li> <li>CNH MAT 3505 / 3509 / 3525 / 3526 / 3540 • Caterpillar Cat T0-2</li> <li>Komatsu AXO 80 • AGCO / ALLIS 821 XL</li> </ul>
	0W-20		API GL-4		<ul> <li>Allison C4 • Caterpillar TO-4 • Caterpillar HYDO Advanced</li> <li>Allison TES 439 • Komatsu Clutch Test (JCMAS)</li> </ul>
	10W		API GL-4 / CF	• ZFTE-ML 03C	<ul> <li>Caterpillar T0-4 • Caterpillar HYDO Advanced 10</li> <li>Allison TES 439 • Allison C4 • Komatsu Clutch Test (JCMAS)</li> </ul>
DYNATRANS ACX	30		API GL-4 / CF	• ZF TE-ML 03C / 07F	<ul> <li>Caterpillar TO-4 • Caterpillar HYDO Advanced 30</li> <li>Allison TES 439 • Allison C4 • Komatsu Clutch Test (JCMAS)</li> </ul>
AOX	50		API GL-4 / CF		Caterpillar T0-4
	60		API GL-4 / CF		Caterpillar TO-4
	ALL GRADES				Suitable in transmissions:  • Dana • Eaton-Fuller • Rockwell • JCB • etc.
DYNATRANS LS	20W-40		API GL-4	• ZFTE-ML 05F / 06K / 17E / 21F	Suitable with • Case MS 1317 • Hanomag • Hitachi • Komatsu AXO 80 • Komatsu etc.

**CROSS-CATEGORY PRODUCTS** 

# **HEAVY-DUTY OFF-ROAD**

#### **TOTAL DYNATRANS PRODUCTS**

COMMERCIAL Product Name	GRADE	FUEL ECONOMY	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS OF
FLUIDMATIC D3				<ul> <li>Mercedes MB-Approval 236.9 • Volvo 97341</li> <li>Man 339 TYP V1 / Z1 / L1 • Voith H55.6335.xx</li> <li>ZF TE-ML 04D / 14A / 11B</li> </ul>	• GM Dexron IIIG / IIIH • Ford Mercon  Recommended for: • Allison C4
FLUIDMATIC XLD FE		FEORIOSY)		<ul> <li>ZF TE-ML 04D / 14B / 16L / 17C / 20B • Voith H55.6336.xx</li> <li>MAN 339 Typ V2 / Z2 • MB-Approval 236.6</li> <li>Allison C4</li> </ul>	Man 339 Typ Z3 • GM Dexron IIIH • ZF TE-ML 02F / 14C     MB 236.91 • Allison TES-389 • VW TL 52162     Ford Mercon / Mercon V • JASO 1A • Toyota T-IV     Hyundai, Kia, Mitsubishi SP-III • Honda Z-1 • Mazda M-III / M-V     Aisin Warner JWS 3309  Recommended for: • ZF TE-ML 11B • Nissan: AT-Matic D, J, K
DYNATRANS FD-1	50 / 60		Caterpillar FD-1		Caterpillar FD-1 specification     Recommended for: Axles and final drives of machines without friction discs working under severe conditions of heavy load and high temperature.
DYNATRANS GEA	680		DIN 51 517-3: CLP ISO 6743-6: CKD		General Electric (GE)    Transportation Systems specification D50E35E (approval in progress) Suitable for: Spur, helical, bevel and most types of industrial hypoid gearing. Also suitable for ball, roller and other types of antifriction bearings
DYNATRANS	80W-90			• ZF TE-ML 05C / 12C / 21C	Suitable for use in: • Liebherr • Terex • Volvo • Case • JCB etc
DA	85W-140		API GL-5 (LS) ● MIL-L-2105D	• ZF TE-ML 05C / 12C / 16E	Suitable for use in: • Case • JCB • Liebherr • Terex • Volvo • Van-Hool etc.

### **TOTAL DYNATRANS PRODUCTS**

	COMMERCIAL Product Name	GRADE	FUEL ECONOMY	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS OF
FLUIDS	TRAXIUM DUAL 9 FE	75W-90	FLEE ECONOMY	API GL-4 / GL-5 / MT-1 MIL-PRF-2105E MIL-L-2105D SAE J2360	<ul> <li>MB-Approval 235.8 • Man 341 Typ Z2 • Man 342 Typ S1</li> <li>Scania STO 1:0 • Scania STO 2:0 A FS • Volvo 97312</li> <li>ZF TE-ML 02B / 05A / 12L / 12N / 16F / 17B / 19C / 21A • Meritor 076-N</li> </ul>	<ul> <li>MB-Approval 235.8 • Man 341 Typ Z2 • Man 342 Typ S1</li> <li>Scania STO 1:0 • Volvo 97312 • Iveco RAS1</li> <li>ZF TE-ML 02B / 05A / 12L / 12N / 16F / 17B / 19C / 21A • Meritor 076-N</li> <li>Suitable for use in: • Eaton Europe</li> </ul>
AALE		80W-90			• ZF TE-ML 12E, 17B, 19B • Man 342 type M-2 • Volvo 97305 • Iveco RAM1	Recommended for: ZF and Man hypoid gears, with standard drain interval.
AND	TRAXIUM AXLE 7	85W-90		API GL-5	• Man 342 type M-1 • ZF TE-ML 16C / 17B / 19B / 21A • MB-Approval 235.0	Recommended for: Man, Mercedes and ZF hypoïd axles, according to the recommended oil change interval.
		85W-140			• ZF TE-ML 05A / 12E / 16D / 21A • Iveco RAM2	Recommended for: Lubrication ZF manual transmission with drain interval based on OEM recommendations.



## **HEAVY-DUTY OFF-ROAD**

## **HYDRAULIC FLUIDS**





**EQUIVIS** and **AZOLLA** are high-performance, anti-wear hydraulic oils approved by world's leading manufacturers. **EQUIVIS HE,** designed for Hydraulic systems operating under high temperature and pressure conditions for Off Road range of Equipment with shear stable viscosity index, ensuring better wear protection.

150 VG 68

### **HYDRAULIC FLUIDS PRODUCTS**

COMMERCIAL PRODUCT NAME	ISO VG	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS	
EQUIVIS 46 28 68 100		AFNOR NF E 48-603 HV ISO 6743 / 4 HV DIN 51524 P3 HVLP JCMAS HK VG46W	<ul> <li>Cincinnati Milacron P68 / P69 / P70</li> <li>Vickers M-2950S, -I-286</li> </ul>	
EQUIVIS AF	32 46 68	ISO 6743 / 4 HV DIN 51524-3 HVLP		
EQUIVIS HE 46 68		ISO 11158 HV DIN 51524-3 HVLP	• Denison HF0, HF1, HF2	
AZOLLA ZS	32 46 68 100	AFNOR NF E 48-603 HM ISO 6743 / 4 HM DIN 51524 P2 HLP	<ul> <li>Cincinnati Milacron P68, P69, P70</li> <li>Denison HF0 / HF1 / HF2 / (T6H20C)</li> <li>Vickers M-2950S / -I-286</li> </ul>	
AZOLLA AF	32 46 68	ISO 6743 / 4 HM US steel 136, 127 SEB 181222 SAE MS 1004 DIN 51524 P2 HLP	<ul> <li>Cincinnati Milacron P 68, P 69, P 70</li> <li>Bosch Rexroth RE 90 220</li> <li>Eaton Vickers I-286-S (Industrial), M-2950-S (Mobile)</li> <li>Denison HF0, HF1, HF2 (approval of T6H20C pump)</li> </ul>	



## **OTHER LUBRICANTS**

#### **CARTER:**

CARTER are lubricants used for enclosed gears operating under severe conditions.

#### **MULTI PURPOSE GREASES:**

Total developed a range of greases dedicated to meet off-road equipment's needs, in different environmental conditions.

Some products are specially designed to adapt to the complexity of your off-road activity, such as MULTIS MINE which is a special mining grease containing 5% solid additives to increase the productivity of operations and protect equipment in the most severe conditions.

#### **TOTAL CARTER PRODUCTS**

COMMERCIAL PRODUCT NAME	ISO VG	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS
CARTER	150 - 220	DIN 51517 Part 3 - CLP • ISO 12925-1 CKD	<ul> <li>DAVID BROWN \$1.53.101 E • AIST 224</li> <li>SEB 181226 • JIS K2219:2006 (Class2)</li> <li>SIEMENS - FLENDER</li> </ul>
EP	320 - 460 - 680	AGMA 9005 - E02 (EP) • GB 5903-2011	
CARTER	150 - 220	DIN 51517 Part 3 - CLP • NF-ISO 6743-6 category CKD	CINCINNATI MILACRON     DAVID BROWN
SH	320 - 460 - 680	AISI 224 • AGMA 9005 - E02	
CARTER SG	150 - 220 320 - 460 - 680	DIN 51517-3 : CLP PG • ISO 12925-1 CKT	

#### **MULTI PURPOSE GREASES**

COMMERCIAL Product Name	COLOR	ROLLING Brg	PIN BUSH	GIRTH GEAR	NLGI GRADE	OPERATING TEMPERATURE (°C)	VISCOSITY AT 40 °C	MULTI PURPOSE GREASES
MULTIS COMPLEX XHV 2 MOLY	● BLACK		***	**	2	-20 to +160	800	CAT/Bucyrus SD 4711 - P&H 520 - Liebherr specifications P1, P2, P3 and OHT - CAT Multi Prupose 3% Moly requirement - Komatsu CLS grease - Epiroc - Sandvik - Hitachi - JCB Volvo - Atlas Copco
MULTIS MINE 680 Range MULTIS MINE 460 Range	• BLACK		***	**	0 to 2	-20 to +160	680 460	CAT/Bucyrus SD 4711 - P&H 520 - Liebherr specifications P1, P2, P3 and OHT - CAT Multi Prupose 3% Moly requirement Komatsu CLS grease - Epiroc - Sandvik - Hitachi - JCB - Volvo - Atlas Copco
MULTIS COMPLEX HV 2 MOLY	BLACK	*	**		2	-30 to +160	340	Liebherr specifications P1, P2
ALTIS MV2	• GREEN	***			2	-60 to 180	160	FLSMIDTH MAAG GEAR - SANDVIK AUBEMA - SIDEL - NEGRI BOSSI - KHD
CERAN XS 40 MOLY	BLACK		***	*	1,5	-50 to 180	40	Komatsu
COPAL OGL Range	BLACK			***	0 1 2	-20 to 150 -15 to 150 -10 to 150	>1000	Liebherr specifications P3 and OHT



#### AGRICULTURE

TOTAL AGRI, YOUR DAILY PARTNER	PAGE 76
TRACTAGRI	PAGE 77
DYNATRANS	PAGE 80
MULTAGRI	PAGE 82
HYDRAGRI AND OTHERS	PAGE 84
PROSYLVA AND PROSYLVA CHAIN	PAGE 86
A-GREASE	PAGE 88
OTHER PRODUCTS	PAGE 90





#### **AGRICULTURE**

## **TOTAL AGRI,**YOUR DAILY PARTNER

At Total, we strongly believe that each market deserves a dedicated range of products.

TOTAL AGRI is our exclusive brand to address your demanding Agricultural market needs. TOTAL AGRI products are tested and approved by Major Agricultural & Heavy Vehicle Manufacturers. These product approvals are the official guarantee proving that TOTAL AGRI products are 100% compatible with the equipment and technology of these related manufacturers.

Total increases uptime and lowers maintenance costs thanks to its:

- Premium products and tailor-made solutions to increase your operational efficiency.
- TOTAL AGRI premium ranges, designed from years of research, tested in real world conditions during fleet tests and approved by OEMs.
- TOTAL ANAC AGRI Fleet Management System, based on used oil analysis and supported by its technical teams on the field.

Total develops tailor-made lubricants in its state-of-the-art R&D centers in France and India. Products are developed in close collaboration with Agricultural and Heavy Vehicle Manufacturers in order to meet their sophisticated and most demanding technical requirements.



**PROFESSIONAL MARKET** 

### TRACTAGRI, **ENGINE OILS**



Approved by Agricultural Manufacturers, TRACTAGRI products offer excellent engine and after treatment systems protection, with extended drain intervals, for both the latest and former engines.

TRACTAGRI products' formulations contain the perfect combination of strong antioxidant molecules. These active molecules prevent unanticipated formation of deposits and keep the hydrocarbon chains intact. As a result, the engine oil viscosity remains stable much longer.



**EV FLUIDS** 

#### **Benefits of using TRACTAGRI Engine Oil:**

- Increased uptime and lower maintenance costs
- Exceed API and ACEA specifications
- Outstanding protection against mechanical wear
- Lower oil consumption



Dedicated to CO, emissions reduction, TRACTAGRI Fuel Economy products are specially formulated to maximize fuel economy properties without compromising on the

engine protection. Our wide range of Fuel Economy solutions are suited for every application, including engines, gearboxes and axles.



#### **TOTAL TRACTAGRI PRODUCTS**

COMMERCIAL Product Name	GRADE	LOW SAPS	FUEL Economy	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS OF
TRACTAGRI T4R FE	5W-30	PARTICIA TE	ECONOMY	ACEA E4, E6, E7, E9 API CJ-4	<ul> <li>Deutz DQC IV-10 LA</li> <li>Deutz TTCD</li> <li>MB-Approval 228.51</li> <li>MAN M 3677</li> </ul>	<ul> <li>Caterpillar ECF-3/ECF-2/ECF-1-a</li> <li>FPT-Iveco TLS E6</li> <li>CNH MAT 3521</li> <li>MAN M 3477 / M 3575</li> <li>Cummins CES 20081</li> </ul>
TRACTAGRI T4R	10W-40	PARTICIPATE PARTICIPATE		ACEA E4, E6, E7, E9 API CJ-4	<ul> <li>Deutz DQC IV-10 LA</li> <li>Deutz TTCD</li> <li>MB-Approval 228.51</li> <li>MAN M 3477</li> </ul>	<ul> <li>Caterpillar ECF-3/ECF-2/ECF-1-a</li> <li>FPT-Iveco TLS E9</li> <li>CNH MAT 3521</li> <li>MAN M 3575</li> <li>Cummins CES 20081</li> </ul>
TRACTAGRI HDZ FE	10W-30	PAUTICULATE PRITER	FUEL	ACEA E7, E9 API CK-4	<ul> <li>Cummins CES 20086</li> <li>Deutz DQC III-18 LA</li> <li>MB-Approval 228.31</li> <li>Volvo VDS-4.5</li> </ul>	<ul><li>Caterpillar ECF-3/ECF-2/ECF-1-a</li><li>CNH MAT 3521</li></ul>
TRACTAGRI HDZ	10W-40	IN MANY PARTICULARE FILLER		ACEA E7, E9 API CK-4/SN	<ul> <li>Cummins CES 20086</li> <li>Deutz DQC III-18 LA</li> <li>MB-Approval 228.31</li> <li>Volvo VDS-4.5</li> </ul>	<ul> <li>Caterpillar ECF-3/ECF-2/ECF-1-a</li> <li>FPT-Iveco TLS E9</li> <li>CNH MAT 3521</li> </ul>
TRACTAGRI HDZ	15W-40	AMERICAN PARTICULATE PRATECULATE		ACEA E7, E9 API CK-4/SN	<ul> <li>Cummins CES 20086</li> <li>Deutz DQC III-18 LA</li> <li>MB-Approval 228.31</li> <li>Volvo VDS-4.5</li> </ul>	<ul><li>Caterpillar ECF-3/ECF-2/ECF-1-a</li><li>CNH MAT 3521</li></ul>

#### **TOTAL TRACTAGRI PRODUCTS**

COMMERCIAL Product Name	GRADE	LOW SAPS	FUEL Economy	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS OF
TRACTAGRI HDY	10W-40			ACEA E4, E7 API CF	<ul><li>MAN M3277</li><li>Deutz DQC III-10</li><li>MB-Approval 228.5</li></ul>	Caterpillar ECF-1-a
TRACTAGRI HDX FE	10W-30		FUEL	ACEA E7 API CI-4	<ul><li>Cummins CES 20078</li><li>Deutz DQC III-10</li><li>MB-Approval 228.3</li></ul>	<ul> <li>Cummins CES 20077/20076</li> <li>Caterpillar ECF-2/ECF-1-a</li> <li>Case MS 1121</li> <li>CNH MAT 3507</li> <li>New Holland NH 324H</li> </ul>
TRACTAGRI HDX	15W-40			ACEA E7 API CI-4/SL	<ul> <li>Cummins CES 20078</li> <li>Deutz DQC III-10</li> <li>MB-Approval 228.3</li> </ul>	<ul> <li>Caterpillar ECF-2/ECF-1-a</li> <li>Case MS 1121</li> <li>FPT-Iveco T2 E7</li> <li>CNH MAT 3507</li> <li>New Holland NH 330H</li> <li>MAN M 3275</li> <li>Cummins CES 20077/20076</li> </ul>
TRACTAGRI HDM	15W-40			API CF-4/SF CCMC D4/PD2 MIL. L. 2104E		



## **DYNATRANS,**TRANSMISSION LUBRICANTS









**DYNATRANS** products are high performance lubricants for agricultural tractors transmissions: UTTO (Universal Tractor Transmission Oil and axles) and Axles. Approved by the Agricultural and Heavy Vehicle Manufacturers, DYNATRANS ranges are developed to cover all types of applications and provide outstanding performances.

Dedicated to CO<sub>2</sub> emissions reduction, DYNATRANS Fuel Economy products are specially formulated to maximize fuel economy properties without compromising on the engine protection. Our wide range of Fuel Economy solutions are suited for every application, including engines, gearboxes and axles.

#### **TOTAL DYNATRANS PRODUCTS**

COMMERCIAL PRODUCT NAME	COMMERCIAL PRODUCT NAME  FUEL ECONOMY		MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS OF	
DYNATRANS VZ FE	FUEL	API GL-4	Massey Ferguson CMS M1145     Valtra G2-B10 • ZF TE-ML 03E/05F/06K	Massey Ferguson CMS M1143    Ford FNHA 2C 201.00/M2C 134-D     John Deere JDM J20C    Mc Cormick HTX	
DYNATRANS MPX		API GL-4	<ul> <li>Valtra G2-08</li> <li>Volvo CE WB 101</li> <li>ZF TE-ML 03E/05F/06D/06K/06N/06R/17E/21F</li> </ul>	Massey Ferguson CMS M1145/M1143    John Deere JDM J20C     Claas / Renault Agriculture    Ford FNHA 2C 201.00/M2C 134-D     Mc Cormick HTX     Suitable for:	
DYNATRANS MPV		API GL-4	<ul> <li>Massey Ferguson CMS M1145</li> <li>Valtra G2-08 • ZF TE-ML 03E/03L/05F/06P/17E/21F</li> <li>Volvo CE WB 101</li> </ul>	<ul> <li>Massey Ferguson CMS M1143 • Allison C4</li> <li>John Deere JDM J20C • CLAAS / Renault Agriculture</li> <li>Ford FNHA 2C 201.00/M2C 134-D • Mc Cormick HTX</li> </ul>	
DYNATRANS LS 20W-40		API GL-4	• ZF TE-ML 05F/06K/17E/21F		
DYNATRANS CVT 10W-30		API GL-4	<ul><li>Massey Ferguson CMS M1145</li><li>ZF TE-ML 06F</li></ul>	Massey Ferguson CMS M1143	
DYNATRANS FR		API GL-4		Claas / Renault Agriculture	
DYNATRANS WS		API GL-4 ISO VG : HV 100		Suitable for: • Massey Ferguson • John Deere • AGCO • Claas / Renault Agriculture •	
BIOTRANS FX (BIOLube)		API GL-4 ISO 15380 : HEES	Massey Ferguson CMS M1145 • ZF TE-ML 06P	Massey Ferguson CMS M1143    Claas / Renault Agriculture	

**CROSS-CATEGORY PRODUCTS** 

COMMERCIAL PRODUCT NAME	GRADE	FUEL Economy	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS OF
DYNATRANS HD	80W-90		API GL-5 • MIL-L-2105D	• ZF TE-ML 05A/12E/16B/17B/21A	
DYNATRANS HD	85W-140		API GL-5 ● MIL-L-2105D	• ZF TE-ML 05A/12E/16B/21A	
DYNATRANS LS	80W-90		API GL-5 LS ● MIL-L-2105D	• ZF TE-ML 05C/12C/21C	Claas / Renault Agriculture    Deutz
BIOTRANS LS FE (BIOLube)	75W-90	FUEL	API GL-5 LS ● MIL-L-2105D		Claas / Renault Agriculture



#### **AGRICULTURE**

## **MULTAGRI,**SUPER TRACTOR OIL UNIVERSAL





**MULTAGRI** products are multifunctional lubricants: STOU (Super Tractor Oil Universal). Exclusively developed for the Agricultural segment, MULTAGRI products provide an all in one solution to lubricate systems: Engine (up to API CG-4/ACEA E3), Gearbox, Axles with oil immersed brake discs and Hydraulic lift.

#### **TOTAL MULTAGRI PRODUCTS**

OMMERCIAL PRODUCT NAME	GRADE	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS OF
MULTAGRI PRO-TEC	10W-40	ACEA E3 Engines: API CG-4/SF Transmissions: API GL-4	<ul><li>Massey Ferguson CMS M1145</li><li>ZF TE-ML 06B/07B</li></ul>	Engines: • Ford M2C 159B3 • Massey Ferguson CMS M1139/M1144 • John Deere JDM J27 Transmissions: • CASE MS 1206/1207 • John deere JDM J20A/J20C • Ford M2C 86A/ M2C 134C/M2C 134D/FNHA 2C 201.00 • Massey Ferguson CMS M1127A/ M1135/M1143 Automatic transmissions: • Caterpillar T02 • Allison C4
MULTAGRI SUPER	10W-30	ACEA E2 Engines: API CF-4/CE/SF Transmissions: API GL-4	<ul><li>Massey Ferguson CMS M1145</li><li>ZF TE-ML 06B/07B</li></ul>	Engines: • Ford M2C 159B1 • Massey Ferguson CMS M1139/M1144 • John Deere JDM J27 Transmissions: • John Deere JDM J20A/J20C • Ford M2C 86A/M2C 134D FNHA 2C 201.00 • Massey Ferguson CMS M1127A/M1135/M1143 Automatic transmissions: • Allison C4
MULTAGRI SUPER	15W-40	ACEA E2 Engines: API CF-4/CE/SF Transmissions: API GL-4	Massey Ferguson CMS M1145     ZF TE-ML 06B/07B	Engines: • Ford M2C 159B3 • Massey Ferguson CMS M1139/M1144 • John Deere JDM J27 Transmissions: • John Deere JDM J20A/J20C • Ford M2C 86A/M2C 134D FNHA 2C 201.00 • Massey Ferguson CMS M1127A/M1135/M1143 Automatic transmissions: • ALLISON C4
MULTAGRI MS	15W-40	ACEA E2 Engines: API CF-4/CE/SF Transmissions: API GL-4	<ul> <li>Massey Ferguson CMS M1145</li> <li>ZF TE-ML 06B/07B</li> </ul>	Engines: • Ford M2C 159B3 • Massey Ferguson CMS M1139/M1144 • John deere JDM J27 Transmissions: • John Deere JDM J20A/J20C • Ford M2C 86A/M2C 134D FNHA 2C 201.00 • Massey Ferguson CMS M1127A/M1135/M1143 Automatic transmissions: • Allison C4



### HYDRAGRI AND OTHERS,

#### HYDRAULIC FLUIDS





**HYDRAGRI** is a range of advanced technology hydraulic fluids dedicated to Agricultural equipment. Thanks to their highly technical formulations and numerous international specifications, HYDRAGRI products cover a wide range of uses.

As complementary ranges, HYDROFLO and BIOHYDRAN are also adapted for Agricultural machinery.

#### **TOTAL HYDRAGRI AND OTHER PRODUCTS**

ISO VG	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS
32 46	AFNOR NF E48-603 HV ISO 6743-4 HV	Cincinnati Milacron P68/P69/P70     Denison HF0/HF2
68	DIN 51524-3 HVLP	• Vickers M-2950-S/I-286-S
46	ISO 6743-4 HV DIN 51524-3 HVLP	
32	DIN 51524 (for mineral oils): except DIN 51587 and ISO 13357	• Denison HF1/HF2/HF6
46 68	AFNOR FR/27/02 Swedish Standard SS 15 54 34	Suitable for: • Caterpillar CAT BF-2
	32 46 68 46	32 46 46 BIN 51524-3 HV BISO 6743-4 HV DIN 51524-3 HVLP  46 BISO 6743-4 HV DIN 51524-3 HVLP AFNOR NF E48-603 HV  BISO 15380 HEES DIN 51524 (for mineral oils): except DIN 51587 and ISO 13357 AFNOR FR/27/02



# PROSYLVA AND PROSYLVA CHAIN, GARDENING AND CHAINSAW LUBRICANTS





**PROSYLVA** is a range of advanced technology lubricants for **Home Farming and Gardening.** 



**PROSYLVA CHAIN** is a range of lubricants suitable for **chainsaws** for the lost oil lubrication of fast-moving machinery: wood chainsaw chains, conveyor belts, ect.

#### **TOTAL PROSYLVA PRODUCTS**

COMMERCIAL PRODUCT NAME	INTERNATIONAL STANDARDS
PROSYLVA 4T SYN 10W-40	ACEA A3/B4 API SL
PROSYLVA 4T 15W-40	ACEA A3/B3 API SJ/CG-4
PROSYLVA 2T SYN	API TC  JASO FD  ISO L-EGC/EGD (detergency level)  Suitabel for:  HUSQVARNA • ROTAX • STIHL
PROSYLVA 2T Z	API TC JASO FB ISO L-EGB

#### **TOTAL PROSYLVA CHAIN PRODUCTS**

COMMERCIAL PRODUCT NAME	ISO VG
PROSYLVA CHAIN CLASSIC	100
PROSYLVA CHAIN EXPERT	150
PROSYLVA CHAIN EXTREM	220
PROSYLVA CHAINBIO (BIOLube)	100



### **A-GREASE**

WEN CARTROCKS DESIGNATION COMME.

**A-GREASE** is a dedicated range of greases developed to meet agricultural equipment's needs, in different environmental conditions.

#### **TOTAL GREASES PRODUCTS**

COMMERCIAL PRODUCT NAME	MECHANICAL STABILITY	THERMAL STABILITY	RESISTANCE TO LOADS	ADHESION	SPECIFICATIONS
A-GREASE Complex HV 2	***	***	***	**	• ISO 6743-9: L-XBEHB 2 • DIN 51502: KP2P-30
A-GREASE FIL EP 2	**	**	**	***	• ISO 6743-9: L-XBCEB 2 • DIN 51502: KP2K-25
A-GREASE CLASSIC	**	*	**	*	• ISO 6743-9: L-XBCEB 2 • DIN 51502: KP2K-20



#### **OTHER PRODUCTS**



**COOLAGRI:** Ready to use very long-life coolant for agricultural machinery, based on highly pure mono-ethylene glycol and organic corrosion inhibitors.



**AGRITRAITE:** Lubricant for the vacuum pumps of milking machines (vane pumps, screw pumps, roots type rotary piston pumps).

#### OTHER PRODUCTS

COMMERCIAL PRODUCT NAME	INTERNATIONAL STANDARDS	MANUFACTURER Approvals	MEET THE REQUIREMENTS	SUITABLE FOR	APPLICATIONS
COOLAGRI ORGANIC -37°C Coolant for Agriculture	AFNOR NFR 15-601 ASTM D3306/D4656/D4985/D6210 SAE J 1034 BS 6580	• MAN 324 type SNF • MTU MTL 5048	<ul> <li>Daimler MB 326.3</li> <li>Deutz DQC CB-14</li> <li>Cummins IS series uN14</li> <li>Cummins CES 14439</li> <li>Liebherr MD1-36-130</li> </ul>	Suitable for:  • John Deere  • Renault Agriculture  • Claas liebherr  • Case New Holland	Ready to use very long life coolant for agricultural machinery, based on highly pure monoethylene glycol and organic corrosion inhibitors.
AGRITRAITE 68 ubricant for Milking machines					Total Lubricant for the vacuum pumps of milking machines (vane pumps, screw pumps, roots type rotary piston pumps).



#### **TOTAL CAPRANO**

TUTAL CAPRANU	PAGE	94
TOTAL CAPRANO	RANGE:	
CAPRANO TDK	PAGE	95
CAPRANO TDI	PAGE	95
CAPRANO MT	PAGE	95
CAPRANO M	PAGE	95
CAPRANO TC	PAGE	95





### **COASTAL AND INLAND NAVIGATION MOTOR OIL**

# TOTAL CAPRANO, ENGINE OILS



The operating conditions of the boats are often far from ideal. Given the constraints imposed on them, their engines need lubricants that provide the best level of performance in all circumstances.

### TOTAL CAPRANO high-technology lubricants ideally suit your fishing, coastal and inland marine activities by offering a dedicated range of products:

- Multigrade engine lubricants, for high-speed 4-stroke diesel engines
- Monograde engine lubricants, for 4-stroke and 2-stroke diesel engines
- Special lubricants, for hydraulic systems, stern tubes and reduction drives







#### **TOTAL CAPRANO PRODUCTS**

COMMERCIAL PRODUCT NAME	GRADE	LOW SAPS	FUEL Economy	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS OF	SUITABLE FOR
CAPRANO TDK FE	10W-30	PARTIE PILLER	FUEL	ACEA E7, E9 API CK-4/CJ-4/CI-4	<ul><li>Cummins CES 20086</li><li>Volvo VDS-4.5</li><li>Man M 3775</li></ul>	<ul><li>Caterpillar ECF-3/ECF-2/ECF-1-a</li><li>Cummins CES 20081</li><li>Man M 3575</li></ul>	
CAPRANO TDK	15W-40	PARTICULATE FILTER		ACEA E7, E9 API CK-4/CJ-4/CI-4/SN	<ul><li>Cummins CES 20086</li><li>Volvo VDS-4.5</li><li>Man M 3775</li></ul>	<ul><li>Caterpillar ECF-3/ECF-2/ECF-1-a</li><li>Cummins CES 20081</li><li>Man M 3575</li></ul>	
CAPRANO TDI FE	10W-30		FUEL	ACEA E7 API CI-4/CH-4	<ul><li>Cummins CES 20078</li><li>MTU Oil Category 2</li><li>Volvo VDS-3</li></ul>	• Caterpillar ECF-2/ECF-1-a • Man M 3275	
CAPRANO TDI	15W-40			ACEA E7 API CI-4/CH-4/SL	<ul> <li>Cummins CES 20078</li> <li>MTU Oil Category 2</li> <li>Volvo VDS-3</li> <li>ZF TE-ML 04C</li> <li>Baudouin Performance B</li> </ul>	<ul> <li>Man M 3275</li> <li>Caterpillar ECF-2/ECF-1-a</li> <li>Cummins CES 20076/20077</li> <li>FPT-Iveco T2 E7</li> </ul>	Mitsubishi
CAPRANO TDH	15W-40			API CH-4/SL	• Cummins CES 20076 • MTU Oil Category 2 • ZF TE-ML 04C • Baudouin Performance B	• Man M 3275 • Caterpillar ECF-1-a • Volvo VDS-2	MWM     Perkins
CAPRANO MT	30			ACEA E7 API CH-4/CG-4/CF-4/CF	MTU Oil Category 2     ZF TE-ML 04A	<ul> <li>ZF TE-ML 04B • ABC DX/DZ</li> <li>Caterpillar 3116/3126 MUI engines</li> <li>Baudouin Performance A</li> </ul>	Wartsila    Mitsubishi Moteurs Usemi-rapides    MWM     Mak    Masson    Stork
CAPRANO MT	40			ACEA E7 API CH-4/CG-4/CF-4/CF	MTU Oil Category 2     ZF TE-ML 04A	• ZF TE-ML 04B • Caterpillar 3116/3126 MUI engines • Baudouin Performance A • ABC DX / DZ	Wartsila    Mitsubishi Moteurs Usemi-rapides    MWM     Mak    Masson    Stork
CAPRANO M	30			API CF	Wartsila Vasa 22/22/26 and 32/32LN	• Man Diesel and turbo • ZF TE-ML 04A/04B • Renk Marine gear-boxes • Reintjes BV 2060/3&4 / BV 1597/3&4	<ul><li>ABC</li><li>Deutz</li><li>Baudouin</li><li>Stork</li></ul>
CAPRANO M	40			API CF	<ul> <li>Wartsila Vasa 22/22/26 and 32/32LN</li> <li>Wartsila 20/26/32/38/46/46F/64</li> <li>Wartsila 20DF/32DF/34DF/50DF</li> <li>Sulzer Z40/ZA40/ZA40S</li> </ul>	<ul> <li>Man Diesel et turbo</li> <li>ZF TE-ML 04A/04B</li> <li>Reintjes BV 2060/3&amp;4 et BV</li> <li>1597/3&amp;4 • Flender A66</li> </ul>	<ul><li>ABC</li><li>Deutz</li><li>Baudouin</li><li>Stork</li></ul>
CAPRANO TC	40			API CF-2			Detroit Diesel 149/53/71/92     Marine



**CROSS-CATEGORY PRODUCTS** 

#### **TRANSMISSIONS**

TRANSMISSION IN ACTION	PAGE 98
TRANSMISSION, STATE-OF-THE-ART TECHNOLOGY	PAGE 99
TRANSMISSION RANGE ARCHITECTURE	PAGE 100
ADVANCED MANUAL TRANSMISSION FLUID RANGE - TRAXIUM	PAGE 101
STANDARD MANUAL TRANSMISSION FLUID RANGE - TRANSTEC	PAGE 104
ADVANCED AUTOMATIC TRANSMISSION FLUID RANGE - FLUIDMATIC	PAGE 105





# TRANSMISSION IN ACTION, GET INSIDE A COMPLETE RANGE OF HIGH-TECH LUBRICANTS

The driveline is an essential element of your vehicle that requires optimal lubrication to exploit its full potential. This is why our lubricants are continuously evolving over time to accompany the evolution of gearboxes and axles technologies. As a result, we offer a full range of high-tech lubricants dedicated to axles, manual and automatic transmissions.



**Excellent viscosity** stability



Fuel economy properties



**Exceptional friction** and anti-shudder performances



**Enhanced thermal stability** and oxidation resistance



Excellent parts material compatibility



Film-strength and anti-wear properties

### TRANSMISSION,

#### STATE-OF-THE-ART TECHNOLOGY

**BADGE** 

**BENEFITS** 

**RTB** 

**STORYTELLING** 



Extended drain intervals Reduce TCO OEM Approvals Durability

LIFE-BOOST TECHNOLOGY

#### Your peace of mind solution

Our products with LIFE-BOOST TECHNOLOGY will maximise the durability of the components and parts of the driveline equipment of your vehicle. We guarantee the Durability of your driveline equipment because our products are approved by the Manufacturers. Our products will offer the best services as your vehicle will require drastically less maintenance providing reduced Total Cost Ownership (TCO) with on top significant extended drain intervals. A solution which offers a peace of mind throughout the normal life time of your vehicle.



**Reduce TCO**OEM Approvals
Durability

SAVINGS TECHNOLOGY

#### Reduce your maintenance costs

Our range of products with SAVINGS TECHNOLOGY is formulated to guarantee long life performances.

They will contribute over time to reduce your maintenance costs as your vehicle will run with fewer interruptions. This will guarantee a reduced Total Cost Ownership (TCO) that will make the difference.



**OEM Approvals**Durability

APPROVED TECHNOLOGY

#### Lubricant you can trust

We develop tailor-made lubricants in our advanced R&D center in France in close collaboration with vehicle and equipment manufacturers. By working this way, we fulfill their most specific technical requirements allowing our products to be approved by those manufacturers.



#### FILM-STRENGTH AND ANTI-WEAR PROPERTIES\*

The driveline is an essential element of your vehicle that requires optimal lubrication to exploit its full potential. This is why our lubricants are continuously evolving over time to accompany the evolution of gearboxes and axles technologies. As a result, we offer a full range of high-tech lubricants dedicated to axles, manual and automatic transmissions.

\*Only applicable for Traxium 9 and Fluidmatic level 3



### TRANSMISSION,

#### RANGE ARCHITECTURE

**TRAXIUM 9** 





**TRAXIUM 8** 



**TRAXIUM 7** 



**TRAXIUM 6** 



The driveline is just as important as the engine to maximize your overall vehicle performance Developed in state-of-art research facilities, Total's range of innovative oils is just what you need for longer protection, higher efficiency and industry-approved performance.



**TRANSTEC 5** 



**TRANSTEC 4** 



Antiwear performance guaranteed under extreme-pressure

Dedicated to manual transmissions, transaxles, steering gears and transferboxes, TRANSTEC lubricants are specifically designed for the lubrication of various applications to give an excellent wear protection under severe oxidation, at high load conditions.



FLUIDMATIC LEVEL 3





FLUIDMATIC LEVEL 2



FLUIDMATIC LEVEL 1



A powerful protective solution to promote oxidation resistance for a longer periode of time FLUIDMATIC synthetic base oils contribute to the protection of the components of your automatic gearbox and greatly enhance friction performance.



**EV FLUIDS** 

#### TRAXIUM

OMMERCIAL PRODUCT NAME	GRADE	APPLICATION	INTERNATIONAL Standards	MANUFACTURER APPROVALS
TRAXIUM DUAL 9	FE 75W-90	HD	API GL-4 API GL-5 API MT-1 SAE J2360 MIL-PRF 2105 E MIL-L 2105 D	MB-Approval 235.8 MAN 341 type Z-2 MAN 342 type S-1 SCANIA STO 1:0 SCANIA STO 2:0 A FS VOLVO 97312 ZF TE-ML 02B, 05A, 12L, 12N, 16F, 17B, 19C, 21A MERITOR 076-N IVECO RAS1 DAF MACK GO-J Plus
TRAXIUM GEAR 9	FE 75W-90	HD	API GL-4	MB-approval 235.11
TRAXIUM GEAR 9V	FE 75W-90	HD	API GL-4	VOLVO 97315
TRAXIUM GEAR 9	FE 75W-80	HD	API GL-4	ZF TE-ML 01E / 02E / 16P VOITH CLASS C VOLVO 97307 MAN 341 type Z5 MAN 341 type VR MB-Approval 235.29 IVECO MGS2
TRAXIUM GEAR 9	FE SAE 75W	PC	API GL-4	PSA B71 2316/2317
TRAXIUM AXLE 9	FE 75W-140	HD	API GL-5 SAE J2360 MIL-L 2105 D MIL-PRF-2105E	SCANIA STO 2:0 A
TRAXIUM AXLE 9	80W-90	HD	API GL-5, MT-1 MIL-L 2105 D SAE J2360	MB-Approval 235.20 , MAN 342 type M3; MAN 341 type GA1 , Scania STO 1:0 , ZF TE-ML 05A, 12L, 12M, 16B, 17B, 19B, 21A IVECO MGS2



# TRANSMISSION

COMMERCIAL PRODUCT NAME	GRADE	APPLICATION	INTERNATIONAL Standards	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS	SUITABLE FOR
TRAXIUM DUAL 8	FE 80W-90	HD	API MT1 API GL-4 API GL-5 MIL-L 2105 D	MAN 341 TYPE Z2 MAN 342 TYPE M2 SCANIA STO 1:0 VOLVO 97321 / MACK GO-J ZF TE-ML 05A/12L/12M/16B/17H/19B/21A IVECO RAM1	MAN 341 TYPE E2	
TRAXIUM GEAR 8	FE 75W-80	HD	API GL-4	MAN 341 type E-3/Z-4 ZF TE-ML 01L, 02L, 16K Volvo 97307		
TRAXIUM GEAR 8	75W-80	PC	API GL-4	PSA PEUGEOT CITROEN B71 2330		
TRAXIUM GEAR 8	FE SAE 40	HD	API MT-1	EATON PS-386 (replace PS-164 Rev 7) Mack TO-A Plus Navistar MPAPS B-6816 Type II		
TRAXIUM  AXLE 8	FE 75W-140	HD	API GL-5 MIL-L 2105 D	SCANIA STO 1:0		
TRAXIUM AXLE 8	80W-90	PC	API GL-5 (LS) MIL-L 2105 D	PSA PEUGEOT CITROEN B71 2375		
TRAXIUM AXLE 8	FE 80W-140	HD	API GL-5 API MT-1 MIL-PRF-2105E MIL-L 2105 D	SCANIA STO 1:0 ZF TE-ML 05A, 12M, 16D, 21A		
TRAXIUM AXLE 8	85W-140	HD	API GL-5 SAE J2360 MIL-L 2105 D MIL-PRF-2105E	Scania STO 1:0 IVECO RAM2	Meets the requirements of Volvo 97321 Meets the requirements of Mack GO-J	

#### TRAXIUM

COMMERCIAL PRODUCT NAME	GRADE	APPLICATION	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS	SUITABLE FOR
TRAXIUM GEAR 7	80W-85	HD	API GL-4	MB-approval 235.1 ZF TE-ML 17A		
TRAXIUM GEAR 7	85W-90	HD	API GL-4	ZF TE-ML 16A/17A/19A		
TRAXIUM AXLE 7	80W-90	HD	API GL-5 MIL-L 2105 D	ZF TE-ML 12E, 17B, 19B,21A MAN 342 type M2 VOLVO 97305 IVECO RAM1		
TRAXIUM AXLE 7	85W-90	HD	API GL-5 MIL-L 2105 D	MAN 342 type M-1 ZF TE-ML 16C, 17B, 19B, 21A MB-Approval 235.0		
TRAXIUM AXLE 7	85W-140	HD	API GL-5 MIL-L 2105 D	ZF TE-ML 05A, 12E, 16D, 17B, 21A IVECO RAM2		
TRAXIUM GEAR 6	75W-80	PC	API GL-4			BMW MTF LT-1, LT-2, LT-3, LT-4VW, FORD WSD M2C200-C / WSD M2C200-D2, VW G 009 317 / G 05 171 / G 052 178 / G 052 512 / G 05 726, VW G 060 726 / VW G 50 / VW G0 52 527 A2 / G0 70 726 A2, FIAT 9.55550-MZ1 / MZ6, VOLVO 97308
TRAXIUM GEAR 6	75W-85	PC	API GL-4			Suitable for: KIA, Hyundai, Nissan, Mitsubishi, Suzuki, Daewoo, Daihatsu and all Car Manufacturers requesting 75W 85 SAE Grades
TRAXIUM GEAR 7	80W-90	HD	API GL-4	MAN 341 Type Z2/E1 ZF TE-ML 16A/17A/19A		





COMMERCIAL PRODUCT NAME	GRADE	APPLICATION	INTERNATIONAL STANDARDS
TRANSTEC 4	75W-90	PC/HD	API GL-4
TRANSTEC 4	80W-90	PC/HD	API GL-4
TRANSTEC 4	85W-90	PC/HD	API GL-4
TRANSTEC 4	85W-140	PC/HD	API GL-4
TRANSTEC 4	SAE 90	PC/HD	API GL-4
TRANSTEC 4	SAE 140	PC/HD	API GL-4
TRANSTEC 4	SAE 80W	PC/HD	API GL-4
TRANSTEC 5	75W-90	PC/HD	API GL-5
TRANSTEC 5	80W-90	PC/HD	API GL-5
TRANSTEC 5	85W-90	PC/HD	API GL-5
TRANSTEC 5	85W-140	PC/HD	API GL-5
TRANSTEC 5	SAE 90	PC/HD	API GL-5
TRANSTEC 5	SAE 140	PC/HD	API GL-5

#### **FLUIDMATIC**

COMMERCIAL PRODUCT NAME	APPLICATION	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS	SUITABLE FOR
FLUIDMATIC XLD FE	HD	ZF TE-ML 04D/14B/16L/208		
FLUIDMATIC Syn T295	HD	ALLISON TES-295 ALLISON TES-468		
FLUIDMATIC DVI MV	PC	GM Dexron® VI		
FLUIDMATIC LV MV	PC		Honda DW-1 Aisin Warner JWS 3324 Toyota Type WS JASO 1A (M315) Hyundai-Kia NWS-9638 T-5 / SP-IV / SP-IV-RR / SPH-IV	GM Dexron VI Ford Mercon LV / Mercon SP MB 236.12/14/41 Bentley: P/N PY112995PA Audi/Volkswagen: G 052 533, G 055 005 (-A, A2) / G 055 540 (A2) BMW/Mini: P/N 83 22 0 142 516 / 83 22 0 397 114 / 83 22 2 163 514 / 83 22 2 289 720 / 83 22 2 305 397 DSI: H 6-Speed Transmissions Chrysler/Dodge/Jeep: P/N05127382AA, 68043742AA Ford: P/N XT-10-QLV, XT-6-QSP or -DSP GM: P/N 8863400, 88863401,12378515 Hyundai-Kia: P/N 040000C90SG Jaguar-Land Rover: P/NTYK500050 Maserati: P/N 231603 Porsche: P/N 000 043 304 00 Saab: P/N 93 165 147 ZF 6 Speed AT (6HP)/8 Speed AT (8HP)/9 Speed AT (9HP) Nissan Matic S
FLUIDMATIC CVT MV	PC		Chrysler/Dodge/Jeep/Mopar CVTF+4 Dodge/Jeep/Chrysler NS-2 GM/Saturn DEX-CVT Honda HMMF (without starting clutch) Honda HCF2 Honda Z-1 (CVT model, without starting clutch not Suitable for 2001-2007 Honda Fit & Jazz) Hyundai-Kia CVT J-1, SP III-CVT Mazda JWS 3320 Mitsubishi CVTF-J1, CVTF J-4 and J-4+, SP III CVT Nissan NS-1/NS-2/NS-3 Subaru iCVT / iCVT FG / ECVT Suzuki CVTF TC / NS-2 / CVT Toyota CVTF TC / CVTF FE	Audi/Volkswagen: TL 521 80 (G 052 180) / TL 521 80 (G 052 516) / Audi Multitronic BMW mini Cooper EZL 799 Daihatsu AMMIX CVTF DFE / CVT Fluid DC & DFC Punch CVT Suzuki CVT Green 1&2 / 1V / CVT 3320



## TRANSMISSION

COMMERCIAL PRODUCT NAME	APPLICATION	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS	SUITABLE FOR
FLUIDMATIC MV	PC		Aisin Warner JWS 3309 / 3317 Chrysler/Dodge/Jeep ATF +3 / +4 Hyundai-Kia SP-II/III JASO 1A (M315) Toyota D-II / T / T-III / T-IV	Ford Mercon / Mercon V / WSS-M2C922-A1 GM Dexron Type A Suffix A/IID/IIE/IIIG/IIIH MAN 339 Type A Mercedes-Benz MB 236.3/9/10/11/91 ZF TE-ML 11A/11B Audi/Volkswagen: G 052 025 (A2) / G 052 162 (-A1,¬A2) / G 052 055 / G 052 990 (A2) / G 055 025 (A2) / G US 000 162 BMW/Mini: P/N 81229400272/275, 81229407858/859, 83220024249/359, 83220026922, 83220402413, 83220403248, 83227542290, 83229407765, 83229407807 Ford: P/N XT-2-QDX [M], XT-2-QSM [Syn], XT-5-QM ou -DM [V], XT-8-QAW [Premium], XT-9-QMM5 [FNR5] GM: P/N 1940700, 1940767, 21005966, 22717466, 88900925, 9986195 Isuzu: P/N 08200-9001 Jaguar: JLM 20238, JLM 20292, JLM 21044 Mazda: P/N XT-9-QMM5 Porsche: P/N 000 043 204 41, 000 043 205 09, 000 043 205 28, 999 917 547 00 (A2) PSA: P/N Z 000169756 Ssang Yong: DSIH 5M-66 Subaru: P/N K0140Y0700 VCE: 1273,41 Volvo: P/N 1161521 / 1161540 / 1161640
FLUIDMATIC DCT MV	PC		Audi/Volkswagen TL 052 182 / TL 052 529 Ford WSS-M2C 936-A Mercedes-Benz MB 236.21	Audi/Volkswagen: DQ250, DQ500, DL501,G 055 529, G052 182, G052 529 BMW: P/N 83 22 2 148 578 / 83 22 2 148 579 /83 22 0 440 214 / 83 22 2 147 477 Citroën: 6DCT451 Ford / Getrag: 6DCT450, 6DCT451, 7DCT300 Mercedes Benz: F DCT350, F DCT500 Volvo: P/N 1161838 / 1161839 Mitsubishi: 6DCT470 Porsche / ZF: 7DT45HL, 7DT45HLA, 7DT45FL, 7DFL, 7DT70HLA, 7DT75,7DT75A
FLUIDMATIC D3	HD	Mercedes MB-Approval 236.9 Volvo 97341 MAN 339 Typ V1/Z1/L1 Voith H55.6335.xx ZF TE-ML 04D/14A/11B	GM Dexron IIIG / IIIH Ford Mercon	Allison C4

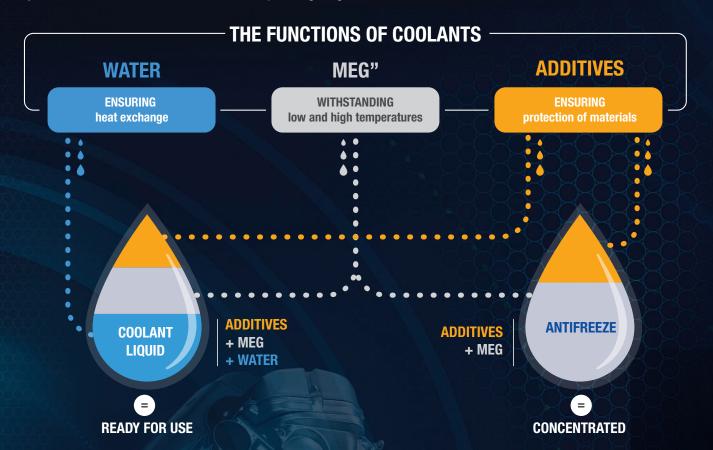
#### **FLUIDMATIC**

COMMERCIAL PRODUCT NAME	APPLICATION	MANUFACTURER APPROVALS	MEETS THE REQUIREMENTS	SUITABLE FOR
FLUIDMATIC D2	HD	ZF TE-ML 03D/04D/14A Voith H55.6335.xx MAN 339 Typ V1/Z1 Volvo 97341 Mercedes-Benz MB-Approval 236.9	GM Dexron IID Ford Mercon	Allison C4
FLUIDMATIC 7S	PC	Mercedes-Benz MB-Approval 236.14		
FLUIDMATIC AT 42	PC/HD	Mercedes-Benz MB-Approval 236.1 MAN 339 type V1/Z1 VOITH H55.6335.xx ZF TE-ML 04D/14A PSA (4HP14, 4HP18, 4HP20) Allison C4 (n° C4-24842997)	GM Dexron IIIG Ford Mercon	Volvo 97341 BMW: Group 24-3.0
FLUIDMATIC ATX	PC/HD	Mercedes-Benz MB-Approval 236.6 MAN 339 Typ V1/Z1 VOITH H55.6335.xx ZF TE-ML03D/ 04D/09/11A/14A/17C PSA S71 2102	Ford Mercon GM DEXRON® IID	Allison C4 BMW: Group 23-3.0, 24-3.0
FLUIDMATIC DIII MV	PC/HD	GM Dexron IIIG / IIIH Ford Mercon		ZF TE-ML 14A Allison C4
FLUIDMATIC DII MV	PC/HD		GM Dexron® IID Ford Mercon®	ZF TZ-ML 14A
FLUIDMATIC CC	PC/HD	Mercedes-Benz MB-Approval 236.2	GM Type A Suffix A MAN 339 Type A	
FLUIDMATIC F Type	PC		Ford WSS M2C-33F/G	Ford transmissions C3, C4



## **COOLANTS AND ANTIFREEZE**

- Coolants help your engine operate correctly by removing surplus heat, thus avoiding overheating and unwanted engine shutdown.
- Since coolants consist mainly of water, the cooling system's metal parts are at risk of corrosion. That is why coolants are chemically enhanced to limit such risks and to prolong engine life.





• Antifreezes and coolants must never be chosen without careful thought. The coolant helps your engine run properly. To protect your engine from overheating and corrosion, to guarantee it will start in all weathers, you should select products of renowned high quality.



# **COOLANTS AND ANTIFREEZE**

COOLELF

COMMERCIAL PRODUCT NAME	NATURE	COMPOSITION	INTERNATIONAL STANDARDS	MANUFACTURER SPECIFICATIONS	PRODUCT ADVANTAGES
COOLELF AUTO SUPRA -26°C, -37°C	DILUTED	ORGANIC	AFNOR NFR 15-601 ASTM D3306/D4656/ D4985/D6210 BS 6580 JIS K2234 SAE J1034 NATO S-759	AUDI/SEAT/SKODA/VW TL 774 D/F (G12/G12+) • DAIMLER MB 326.3 • FORD WSS-M97B44-D • MAZDA MEZ MN 121 D • JAGUAR LAND-ROVER STJLR • 651.5003 • MAN 324 Typ SNF • DEUTZ DQC CB-14 • GMW 3420 • GE Jenbacher TA 1000-0201 • MWM 2091/11 • CAT 2091/11 • CUM-MINS IS series u N14 • KOMATSU 07 892 (2009) • LIEBHERR MD1-36-130 • MTU MTL 5048 • PACCAR DAF 74002 • YANMAR • RENAULT 41-01-001/S Type D / SAAB / LEYLAND TRUCKS	"Very long life" coolant based on monoethylene glycol and organic corrosion inhibitors.
COOLELF ECO BS	DILUTED	ORGANIC	BS 6580		Contains no borax, amines, nitrites or phosphates.
COOLELF PLUS -37°C	DILUTED	HYBRID	AFNOR NFR 15-601 ASTM D3306/D4656/ D4985 BS 6580	AUDI/SEAT/SKODA/VW TL 774 C (G11) • BMW GS 94000 • PORSCHE TL-774 C (G 11) • FIAT CHRYSLER MS-7170 • GM-0PEL GME L1301 • FORD / MB 326.0 / FIAT-LANCIA 9.55523 / LADA TTM VAZ 1.97.717-97 / CUMMINS 85T8-2 / IVECO standard 18-1830 / MAN 324 Type NF / MTU MTL 5048 / PERKINS / VOLVO 128 6083 /002	"Long life" coolant based upon monoethylene glycol and inorganic corrosion inhibitors (silicates), a long proven coolant and heat transfer technology.
COOLELF MDX -26°C, -37°C	DILUTED	HYBRID	AFNOR NFR 15-601 BS 6580	AUDI/SEAT/SKODA/VW TL 774 C (G11) • GM-OPEL • BMW GS 94000 • VOLVO 128 6083/002 • MB 326.0 • MTU - MTL 5048 • MAN 324 Type NF • CATERPILLAR MWM 0199-99-2091/9 • Opel-GM GMW 3420 • VAUXHALL GM 6277M (+B040 1065) • STEYR-DAIMLER PUCH N 05045 • PORSCHE TL-774 C (G11) • VAN HOOL	"Long-life" coolant based upon mo- noethylene glycol and containing no amines, nitrites or phosphates.
COOLELF SI-OAT		LOBRID	AFNOR NFR 15-601 ASTM D3306, ASTM D4985, ASTM D6210 BS 6580 SAE J1034	MB-Approval 326.5 • VW TL 774-G • CUMMINS CES 14603 • MAN 324 type SI-OAT • SCANIA TB 1451	

## GLACELF

COMMERCIAL Product Name	NATURE	COMPOSITION	INTERNATIONAL STANDARDS	MANUFACTURER SPECIFICATIONS	PRODUCT ADVANTAGES
GLACELF AUTO SUPRA	CONCENTRATED	ORGANIC	AFNOR NFR 15-601 ASTM D3306/D4656/ D4985/D6210 BS 6580 JIS K2234 SAE J1034 NATO S-759	AUDI/SEAT/SKODA/VW TL 774 D/F (G12/G12+) • MB-Approval 325.3 • FORD WSS-M97B44-D • MAZDA MEZ MN 121 D • JAGUAR LAND-ROVER STJLR • 651.5003 • MAN 324 Typ SNF • DEUTZ DQC CB-14 • GMW 3420 • GE Jenbacher TA 1000-0201 • MWM 2091/11 • CAT 2091/11 • CUM-MINS IS series u N14 • KOMATSU 07 892 (2009) • LIEBHERR MD1-36-130 • MTU MTL 5048 • PACCAR DAF 74002 • YANMAR • RENAULT 41-01-001/S Type D / SAAB / LEYLAND TRUCKS / SCANIA / WARTSILA 32-9011	"Very long life" antifreeze based on high purity monoethylene glycol and organic corrosion inhibitors.
GLACELF ECO BS	CONCENTRATED	ORGANIC	BS 6580		Contains no borax, amines, nitrites or phosphates.
GLACELF PLUS	CONCENTRATED	HYBRID	AFNOR NFR 15-601 ASTM D3306/D4656/ D4985 BS 6580	AUDI/SEAT/SKODA/VW TL 774 C (G11) • BMW GS 94000 • PORSCHE TL-774 C (G 11) • FIAT CHRYSLER MS-7170 • GM-OPEL GME L1301 • FORD / MB 325.0 / FIAT-LANCIA 9.55523 / LADA TTM VAZ 1.97.717-97 / CUMMINS 85T8-2 / IVECO standard 18-1830 / MAN 324 Type NF / MTU MTL 5048 / PERKINS / VOLVO 128 6083 /002	"Long life" coolant based upon monoethylene glycol and inorganic corrosion inhibitors (silicates), It contains also an organic inhibitor.
GLACELF MDX	CONCENTRATED	HYBRID	AFNOR NFR 15-601 BS 6580	AUDI/SEAT/SKODA/VW TL 774 C (G11) • GM-OPEL • BMW GS 94000 • VOLVO 128 6083/002 • MB 325.0 • MTU - MTL 5048 • MAN 324 Type NF • CATERPILLAR MWM 0199-99-2091/9 • Opel-GM GMW 3420 • VAUXHALL GM 6277M (+B040 1065 • STEYR-DAIMLER PUCH N 05045 • PORSCHE TL-774 C (G11) • VAN HOOL	"Long-life" antifreeze based upon monoethylene glycol and containing no amines, nitrites or phosphates.





## **HYDRAULIC FLUIDS**

Hydraulic fluids are used in all industries, agricultural, mining and public works machinery, and represent over 10% of the world's lubricant needs. Often considered as commodity oils, we forget that they are high-performance products, without which a machine cannot function.

There exists a large variety of hydraulic fluids, which have different properties in order to meet the requirements of the various applications of the industrial users.

There are some hydraulic fluids offering high-performance products which have numerous properties, the fruit of a quality formulation.

- Their properties are partly provided by the intrinsic quality of the base oils (deaeration, filterability, viscosity index), hence the importance of the selection of the raw materials.
- A quality additivation is necessary to guarantee good performance of the fluid over time.
- The increasing temperature and pressure constraints mean that increasingly higher performance fluids are proposed.



## **BRAKE FLUIDS**

The first vehicles equipped with hydraulic braking systems were launched in 1924. Alcohols, particularly polyhydric alcohols such as glycerol, and glycerol-water mixtures were used as hydraulic fluids. These products didn't match the requirements of today's technology and are only of historical interest.

Currently, there are mainly three classes of brake fluids...

The main used today are glycol-ether based, but mineral oil (Citroën Hydraulic Mineral Liquid LHM) and silicone (DOT 5) based fluids are also available. Silicone oils are mainly used on military vehicles in the United States and mineral oils are used for some specific applications (Citroen, Rolls Royce...).



# HYDRAULIC AND BRAKE FLUIDS

## **HYDRAULIC**

COMMERCIAL PRODUCT NAME	APPLICATIONS	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS
FLUIDE LDS	Orange-coloured synthetic hydraulic fluid for hydraulic power units in Citroën vehicles with "HYDRActive 3" such as the Citroën C5. Do not use where a fluorescent green colour mineral fluid is recommended (TOTAL LHM PLUS).		• PSA PEUGEOT-CITROËN S71 2710
FLUIDE DA	Orange synthetic fluid for power steering in Peugeot, Citroën or Renault private passenger vehicles where the manufacturer recommends this fluid.  Do not use where a fluorescent green colour mineral fluid is recommended (TOTAL LHM PLUS).  Recommended for "extreme cold" applications.	Contains no borax, amines, nitrites or phosphates.	<ul><li>PSA PEUGEOT-CITROËN S71 2710</li><li>MAN 3289</li><li>RENAULT PSFRLT</li></ul>
LHM PLUS	Mineral hydraulic fluid for hydraulic power units in Citroën XM, XANTIA, BX, CX, SM, GS; for hydraulic power units in Citroën ID and DS sold after September 1966 (components painted green); for brake circuits and hydraulic clutch control systems in utility vehicles Citroën N, P and C35; for the Peugeot 405X4 vehicle level adjuster.  Not miscible and not compatible with some synthetic fluids.		• PSA PEUGEOT-CITROËN S71 2710

## **BRAKE FLUIDS**

COMMERCIAL PRODUCT NAME	APPLICATIONS	INTERNATIONAL STANDARDS	MANUFACTURER APPROVALS
TOTAL HBF 5.1	Hydraulic fluid recommended for brake circuits in all vehicles using synthetic fluids where DOT 5.1 level is required and especially for vehicles operating in very severe conditions. It is used in competition.  Miscible with other synthetic fluids of chemical type such as DOT 3, DOT 4 and DOT 5.1.  Not miscible with mineral base fluids of LHM type and fluids of DOT 5 type with silicon.	<ul><li>SAE J 1704</li><li>ISO 4925 Class 5.1</li><li>FMVSS 116 DOT 5.1</li></ul>	
TOTAL HBF 4	Hydraulic fluid recommended for brake circuits and clutch systems in all vehicles using synthetic fluid and requiring DOT 4 level. Miscible with other synthetic fluids of chemical type such as DOT 3, DOT 4 and DOT 5.1.  Not miscible with mineral base fluids of LHM type or silicon based fluids.	<ul><li>SAE J 1704</li><li>ISO 4925 Class 4</li><li>FMVSS 116 DOT4</li></ul>	
TOTAL HBF 3	Hydraulic fluid recommended for brake circuits and clutch systems in all vehicles using synthetic fluid and requiring DOT 3 level. Miscible with other synthetic fluids of chemical type such as DOT 3, DOT 4 and DOT 5.1. Not miscible with mineral base fluids of LHM type or silicon based fluids.	• SAE J 1703 • ISO 4925 Class 3 • FMVSS 116 DOT3	



## **ADBLUE®**

AdBlue® is a Diesel exhaust fluid for vehicles equipped with SCR technology.

Made up of **67.5% deionized water** and **32.5% high-purity urea**, it meets the requirements of the ISO 22241 standard.

AdBlue® is stored in an auxiliary tank separate from the Diesel fuel tank.



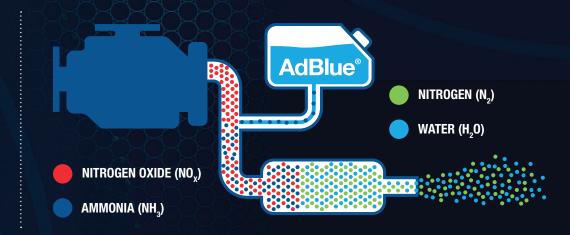
**EV FLUIDS** 

#### **HOW DOES IT WORK?**

When combined with SCR technology, **AdBlue®** converts **nitrogen oxide** (**NO<sub>x</sub>**) emissions from Diesel engines into harmless nitrogen and water vapor. Total offers AdBlue in different formats to meet your needs: Pump, 5L, 10L, 208L drum, 1,000 IBC and Bulk

#### A THREE-STEP PROCESS

- 1 AdBlue® is injected into the exhaust pipe upstream of the SCR catalyst.
- 2 Urea breaks down into ammonia when exposed to hot exhaust gases.
- 3 Nitrogen oxide from the engine is converted to nitrogen (a harmless gas, the main component of the air we breathe) and to water vapor, through a chemical reaction with the ammonia in the SCR catalyst.



#### **CLEARNOX**

## CLEARNOX,

## A TOTAL TECHNOLOGY THAT TAKES IT UP A NOTCH

**Vehicles can run into problems with plugging of their SCR system** depending on how they're used, especially if they make frequent stops or are running at low load. Caused mainly by cyanuric acid crystals, plugging can eventually bring the vehicle to a complete standstill.

**Total developed and patented CLEARNOX to solve this problem.** Formulated using AdBlue<sup>®</sup>, CLEARNOX is a preventive solution that keeps crystals from forming in the SCR system. Using it continuously keeps SCR systems working efficiently.

**CLEARNOX** is primarily for **business customers** operating buses, trucks, farm machinery, construction equipment and other Heavy-Duty vehicles.











## WHAT A SCR MIXER LOOKS LIKE(1)





## WITHOUT CLEARNOX

#### WITH CLEARNOX

(1) View of a SCR mixer without the use of CLEARNOX and with the use of CLEARNOX. Tests conducted on a laboratory test bench at 250°C (December 2018, Total Research Solaize).

**EV FLUIDS** 

## **COMPATIBLE WITH EVERY TYPE OF VEHICLE**













## **DELIVERED IN BULK OR PACKAGED FORM**









## **BIO-LUBRICANTS**

WHAT IS A BIOLUBRICANT?	PAGE 122
WHAT IS AN ECOLABEL?	PAGE 123
ENGINE AND TRANSMISSION OILS	PAGE 124
OTHER PRODUCTS	PAGE 125





## **BIO-LUBRICANTS**

Total is acutely aware of the need for environmental protection and sustainable development and has developed a complete range of lubricants primarily intended for activities that can present direct risks to the environment if the product leaks or is accidentally spilled.

## WHAT IS A BIO-LUBRICANT?

The term "bio-lubricant" applies to all lubricants that biodegrade rapidly and which are non-toxic for human beings and aquatic habitats.



#### THEY MAY BE BASED ON:

- Plant oils (such as rapeseed oil)
- Synthetic esters manufactured from modified renewal oils

#### THE KEY ADVANTAGES OF BIO-LUBRICANT:

- Rapid biodegradation
- Low toxicity
- Environmental friendliness
- Good lubricating properties
- High viscosity index
- Longer equipment life

Bio-lubricants are preferably used in all application that may present risks for the environment.

#### THIS IS THE CASE FOR:

- Lost oils (chainsaw chain oils, 2-stroke engine oils, formwork release agents and greases)
- Oils that may leak accidentally (hydraulic oils, oils for engines, gearboxes, axles, etc.)

The use of bio-lubricants is particularly relevant to certain environments in which environmental protection is a constant concern. This is particularly true of aquatic, mountain, agricultural and forest environments.



## WHAT IS AN ECOLABEL?

There are several ecolabels designed to differentiate bio lubricants from conventional lubricants. The European Ecolabel is the most widely accepted and Total has chosen to apply it to its products.

The European Ecolabel, identified by the daisy symbol, can only be used on products which satisfy strict criteria for low environmental impact. It is a label that provides a guarantee of good performance and differentiates genuine bio-lubricants from oils that are simply biodegradable. Total is an active participant in research and awareness-raising programs conducted by national and EU institutions. Total can also propose specific solutions for each of the relevant sectors of activity:

- WATER
- PUBLIC WORKS
- MOUNTAIN AREAS
- FORESTRY AND FARMING



# **BIO-LUBRICANTS**

#### **ENGINE & TRANSMISSION OILS**

COMMERCIAL PRODUCT NAME	APPLICATION	FUEL ECONOMY	WATER	MOUNTAIN	PUBLIC WORKS	FORESTRY/ FARMING	ECOLABEL	BIODE- GRADABLE	INTERNATIONAL Standards	MANUFACTURER APPROVALS	SUITABLE FOR
BIOTRAFFIC 3000 FE 10W-30	4 - stroke Diesel engines	FUNDAY	Yes	Yes	Yes	Yes		Yes	• ACEA E4, E6, E7, E9 • API CJ-4 • JASO DH-2		Meets the requirements of:  • Deutz DQC IV-10 LA / Deutz TTCD  • MTU Cat 3.1  • MAN M3477/M3677  • MB-Approval 228.51  • Volvo VDS-4  • Renault Trucks RLD-3  • Scania LDF-4  • Liebherr LH 01 ENG LA  • Caterpillar ECF-3/ECF-2/ECF-1-a  • Cummins CES 20081  • FPT-Iveco TLS E6
NEPTUNA 2T BIO-JET	2 - stroke gasoline engines		Yes	Yes		Yes		Yes	• NMMA TC-W3® • API TC	MSR Engines:     JETSURF MOTORIZED     SURFBOARDS	<ul> <li>BOMBARDIER</li> <li>SEA-DOO</li> <li>EVINRUDE</li> <li>JOHNSON</li> <li>KAWASAKI</li> <li>MERCURY</li> <li>YAMAHA, etc.</li> </ul>
BIOTRANS LS FE 75W-90	Axles, reduction drives	FUEL		Yes	Yes	Yes		Yes	• API GL-5 LS • MIL-L-2105D		CLAAS / RENAULT AGRICULTURE DEUTZ LIEBHERR • VOLVO CE • TEREX CASE NEW HOLLAND • JCB
BIOTRANS FX	<b>UTTO</b>			Yes	Yes	Yes		Yes	• API GL-4 • ISO 15380 HEES	<ul><li>Massey Ferguson CMS M 1145</li><li>ZF TE ML 06P</li></ul>	

## OTHER PRODUCTS

COMMERCIAL PRODUCT NAME	APPLICATION	FUEL ECONOMY	WATER	MOUNTAIN	PUBLIC WORKS	FORESTRY/ FARMING	ECOLABEL	BIODE- GRADABLE	INTERNATIONAL Standards	MANUFACTURER Approvals	SUITABLE FOR
BIOHYDRAN SE 32 BIOHYDRAN SE 46 BIOHYDRAN SE 68	Saturated hydraulics			Yes	Yes	Yes	Yes	Yes	<ul> <li>ISO 15380 HEES</li> <li>DIN 51524 (for mineral oils): except DIN 51587 and ISO 13357</li> <li>AFNOR FR/27/02</li> <li>Swedish Standard SS 15 54 34</li> <li>JCMAS HKB</li> </ul>	• Denison HF1/HF2/ HF6	• Caterpillar BF-2
BIOHYDRAN TMP 100	Stern tubes							Yes	• VDMA 24568 HEES • ISO 15380 HEES		
PROSYLVA CHAINBIO	Chainsaw chains			Yes		Yes		Yes			
BIOMULTIS EP 2	Grease		Yes	Yes	Yes	Yes	Yes	Yes	• ISO 6743-9: L-XCEEB2 • DIN 51502: KP2K-30	• Environmentally Acceptable Lubricant (EAL) for the 2013 Vessel General Permit (VGP)	

#### **HIGH-QUALITY GREASES**

Total is one of the few oil companies operating plants specializing in the production of greases. Total has a worldwide presence due to its plants based in many countries. They rank among the best in the world today and are considered to be among the most modern.

They are also environmentally friendly (the use of lead and other heavy metals is banned in our products) and discharge no harmful waste.

#### A GUARANTEE OF A HIGH-TECHNOLOGY PRODUCT

Total Research Laboratory in Solaize (France) uses the highest-performing equipment along with cutting-edge techniques to develop high-technology products. And lastly, laboratory and bench testing and constant contact with equipment manufacturers enable us to improve our greases constantly and anticipate future needs.

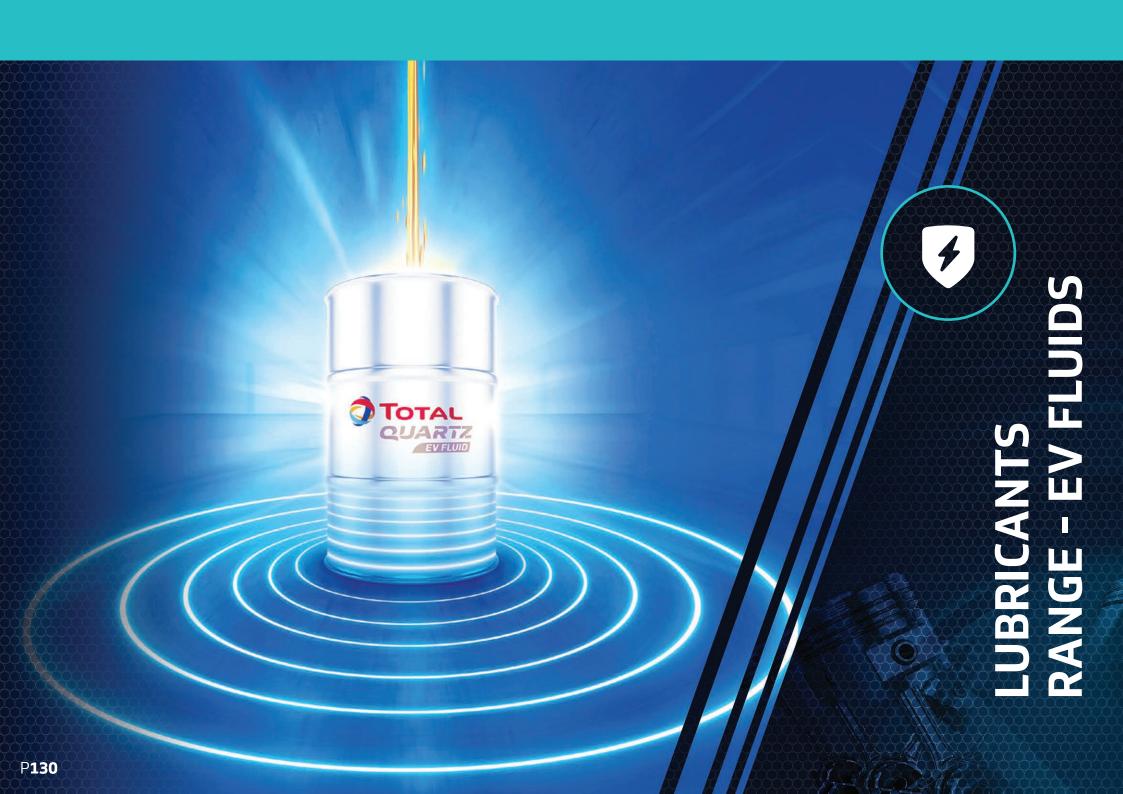
#### A VARIED PRODUCT OFFERING TO MEET OUR CUSTOMERS' DIFFERING NEEDS

Incorrect product recommendation can have serious consequences. Although a modern multi-purpose grease of superior quality can meet the needs of almost 75% of applications requiring grease lubrication, the remaining 25% demand a large number of special greases.



COMMERCIAL PRODUCT NAME	COLOR	TRUCK	OFF- ROAD	AGRI	ROLLING BRG	PLAIN BEARING	CHASSIS	NLGI GRADE	OPERATING TEMPERATURE (°C)	VISCOSITY AT 40 °C	APPROVALS/MEET THE REQUIREMENT
Premium CERAN XM 220	BROWN	8	8	$\otimes$	***	***	***	1-2	-30 to +180	220	
MULTIS COMPLEX SHD 220	• YELLOW	$\otimes$	8		***	***	***	2	-50 to +160	220	
MULTIS COMPLEX MHD 220	• BLUE	$\otimes$	$\otimes$	$\otimes$	**	**	**	2	-20 to +160	220	
MULTIS COMPLEX XHV 2 MOLY	• BLACK		$\otimes$	$\otimes$		***	***	2	-20 to +160	800	
MULTIS COMPLEX EP 2	• RED	$\otimes$	$\otimes$	$\otimes$	***	**	**	2	-20 to +160	165	NLGI GC-LB (wheel bearing and chassis lubrication)
MULTIS COMPLEX HV 2	• GREEN		$\otimes$	$\otimes$	**	***	**	2	-30 to +160	320	
MULTIS FIL EP 2	• GREEN		$\otimes$	$\otimes$	*	*	*	2	-25 to +120	150	

COMMERCIAL PRODUCT NAME	COLOR	TRUCK	OFF- ROAD	AGRI	ROLLING BRG	PLAIN BEARING	CHASSIS	NLGI GRADE	OPERATING TEMPERATURE (°C)	VISCOSITY AT 40 °C	APPROVALS/MEET THE REQUIREMENT
MULTIS EP 2	<ul><li>LIGHT BROWN</li></ul>	$\otimes$	$\otimes$	$\otimes$	*	*	*	2	-25 to +120	150	
MULTIS MS 2	GREY		$\otimes$			*	*	2	-25 to +130	150	Liebherr specifications P1, P2 Komatsu CLS grease
MULTIS ZS 000	• GREEN	$\otimes$	$\otimes$	$\otimes$		***		000	-45 to +120	42	Mercedes Benz Betriebstoff-Vorschriften Blatt 264 MAN according to Werknorm 283-Li-P00/000 Vogel AG, specification Fliessfett, edition 01/89
MULTIS EP 00	<ul><li>LIGHT Brown</li></ul>	$\otimes$	$\otimes$	$\otimes$			***	00	-24 to +120	150	
BIOMULTIS EP 2 BIOMULTIS EP 0	• BROWN		$\otimes$	$\otimes$	**	*	**	2 0	-30 to +140	150	
COPAL TRUCK FW	● BLACK	$\otimes$						2	-20 to +130	>600	



## TOTAL QUARTZ EV FLUID AND TOTAL RUBIA EV FLUID

PIONEERING ELECTRICAL LUBRICATION PAGE 132

RANGE ARCHITECTURE PAGE 133





# TOTAL QUARTZ EV FLUID AND TOTAL RUBIA EV FLUID, PIONEERING ELECTRICAL LUBRICATION

# TOTAL QUARTZ EV FLUID AND TOTAL RUBIA EV FLUID RANGES FOR HYBRID AND ELECTRIC VEHICLES.

As hybrids and EVs become increasingly powerful and their battery ranges and charging speeds improve, standard fluids are unable to keep up in terms of robustness, heat resistance and cooling capacity.

TOTAL QUARTZ EV FLUID and TOTAL RUBIA EV FLUID are the first fluid ranges in the market that respond to these vehicles' specific requirements, as well as to their related electrical, thermal and friction constraints.

TOTAL QUARTZ EV FLUID AND TOTAL RUBIA EV FLUID, PIONEERING ELECTRICAL LUBRICATION.



# TOTAL QUARTZ EV FLUID AND TOTAL RUBIA EV FLUID,

## RANGE ARCHITECTURE

EV-DRIVE MP	<ul> <li>Protects against shortcuts and static electricity</li> <li>Provides optimal temperature control (even at fast charging and high torque)</li> <li>Ensures compatibility with copper coils and polymer materials</li> </ul>
EV-DRIVE R	<ul> <li>Shows excellent anti-wear properties (gears and rolling bearings)</li> <li>Ensures durability of gears and rolling bearings rotating at very high speed</li> <li>Shows optimal anti-foaming and air release properties through the entire lifetime the vehicles</li> <li>Designed for excellent pump ability even at very low temperature</li> </ul>
EV-BATTERY	<ul> <li>Allows ultra-fast charging through outstanding thermal management properties</li> <li>Provides a very high resistance to ageing</li> <li>Protects against shortcuts and static electricity</li> <li>Ensures high protection against fire propagation risk</li> </ul>
EV-AMT	<ul> <li>Ensures compatibility with copper coils and polymer materials</li> <li>Provides optimal temperature control</li> <li>Protects against shortcuts and static electricity</li> <li>Shows excellent anti-wear properties (gears and rolling bearings)</li> <li>Maintains excellent gear shifting comfort and components durability</li> </ul>
EV-AT	<ul> <li>Ensures compatibility with copper coils and polymer materials</li> <li>Provides optimal temperature control</li> <li>Protects against shortcuts and static electricity</li> <li>Shows excellent anti-wear properties (gears and rolling bearings)</li> <li>Maintains excellent friction properties, foaming and air release performances</li> </ul>



## **TOTAL ANAC**

TOTAL ANAC is a preventive maintenance tool and a fleet management system based on used oils analyses ensuring a significant reduction of the TCO of the customer by:

- preventing possible breakdowns,
- regularly following the condition of the lubricant and the wear of the mechanical components,
- reinforcing the lifetime and the reliability of the machines,
- safely optimizing the drain intervals.

Our professional clients are active in the automotive sector (on- and off-road transport), industry and marine (internal and international markets). The TOTAL ANAC diagnostic service is provided worldwide by Total subsidiaries to end users.

More than **10 000** 

customers worldwide

45 years of experience

More than

**7,5** million oil samples analyzed

Active in

100 countries

#### A PERSONALIZED AND SECURE ACCESS TO:

#### anac-diagnosis.com

- consult new reports and previous sample results
- visualize the analysis results in graphical form
- go in depth with personalized requests
- manage statistical modules
- better understand through diagnostic assistance



Reduces downtime of your fleet.

Prevention of possible mechanical breakdowns.



Increases the lifetime of your vehicles.

Decrease of the risk of excessive wear of the mechanical component.



**Optimizes the maintenance.** 

Control of your maintenance budget.



Reduces the Total Cost of Ownership (TCO).

Optimization of the amortization of your vehicle park.



# RANGE OF SERVICES, ANAC FOR AUTOMOTIVE

STANDARD OFFER









**PREMIUM OFFER** 









OFFER	APPLICATION	DESCRIPTION
ANAC PRO	•	Using a data compensation system, <b>TOTAL ANAC PRO</b> is the solution offered to all fleet managers to accurately <b>identify the wear condition</b> of their vehicle driveline components and <b>reduce the mainteance costs</b> of their vehice/machine park. A unique colour-code simplifies report reading.
ANAC EXPERT		Measurements of TBN (or TAN) and oxidation, personalized comments by a specialist in engines and lubrication, <b>TOTAL ANAC EXPERT</b> is an <b>in-depth, personalised diagnosis system</b> , recommended for detailed follow-up of component wear and lubricant behaviour, spot analysis and diagnosis in special cases (breakdownw, claims, expertise, etc).
ANAC VISIO		<b>TOTAL ANAC VISIO</b> is an in-depth diagnostics system for non combustion driveline components and hydraulic systems in automotive applications.  TOTAL ANAC VISIO adds a <b>microscopic examination</b> of the particles in the oil to the analysis of the physico-chem cal condition of the lubricant and the wear condition of the component.
ANAC COOLANT		Coolants play a major role in engine protection. <b>TOTAL ANAC COOLANT</b> offers an in-depth diagnosis for the <b>followup of cooling liquids and cooling systems</b> .
ANAC TRANSPORT		TOTAL ANAC TRANSPORT, specially designed for road fleets, ensures:  - The use of right engine oil to protect exhaust gas emission systems and ensuring the use of LOW SAPS engine of new generation of equipments.  - The optimization of drain intervals with oxidation analysis.
ANAC CITY		TOTAL ANAC CITY, specially designed for intra-city road fleets (waste collectors, city buses, etc), ensures:  - Adapted analysis to city condition usages with T.B.N. control based on OEM requirements.  - Adapted analysis to gas engine requirements with nitration and oxidation control.
ANAC OFF ROAD		TOTAL ANAC OFF ROAD, specially designed for off road applications, ensures:  - The detection of bigger ferrous particles with FDM (Ferrous Debris Monitor) for transmission & other aggregates.  - Advanced oxidation control for transmission oil and TAN follow-up for hydraulic oil to prevent any acid attacks o elastomers, seals and oil thickening.
ANAC AGRI		TOTAL ANAC AGRI, specially designed for agricultural applications, ensures:  - The detection of bigger ferrous particles with FDM (Ferrous Debris Monitor) for transmission.  - The determination of presence of hydraulic oil in UTTO (Universal Tractor Transmission Oils), avoiding noise and shuddering.

# TOTAL LUBRIFIANTS www.lubricants.total.com

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