FISHING, WATERWAYS, COASTAL SHIPPING & LEISURE CRAFT

Lubricants range
Multigrade lubricants for 4-stroke Diesel engines

CAPRANO TDJ FE 10W-30

New industrial Diesel engine lubricant based on «Low SAPS™» technology and Fuel Saving formulation, particularly suitable for the lubrication of Diesel engine equipped with Diesel Particulate Filters (DPF).

**Specifications:**
- ACEA E9 / E7 • API CJ-4
- CUMMINS CES 20081
- BAUDOUIN SMB 5
- MAN 3575
- VOLVO VDS-4
- Complies with CATERPILLAR ECF-3

**Use:**
Can be used in older technology engines

**Advantages:**
- Recognized fuel-savings performance
- Allows extension of the life time of the particulate filters
- Reduces polluting emission
- Compatible with after treatment systems used in new emission controlled engines

**Reduction in CO₂ emissions of up to 75 %** per ton per year.

**Use:**
Can be used in older technology engines

CAPRANO ENERGY FE 15W-30

Very high performance lubricant specially developed for the most modern high speed marine Diesel or gasoline engines allowing Fuel Economy while reducing polluting emissions.

**Specifications:**
- ACEA E7/A3/B4/B3 • API CI-4 /SL
- CUMMINS CES 20078 / 20077 • MTU Category 2
- BAUDOUIN Performance B
- WÄRTSILÄ-POYÄDI UD series (except 33 and 45)
- MAN M3275 • VOLVO VDS-3
- Complies with CATERPILLAR ECF-2
- Suitable for engines: DEERE, DEUTZ, NANNI...

**Use:**
Can be used for lubricating auxiliary units

**Advantages:**
- Allows Fuel Economy and output gain
- Maintains engine efficiency and protects against liner polishing
- Reduces polluting emissions
- Ensures longer engine life and internal engine cleanliness

**Reduction in CO₂ emissions of up to 75 %** per ton per year.

**Results compared to a standard SAE 40 type oil, for a boat consuming on average 80 L/h and working 7,000 hours per year. Results dependent on the engine types and the conditions of use.**

**On the basis of 5% of fuel savings / 2.7 kg of CO2 per litre of fuel (EPA) / 7,000 hours in use per year / average consumption of 80 L/h / depending on the engine types and conditions in use.**
**CAPRANO TDJ 15W-40**

New industrial Diesel engine lubricant, based on “Low SAPS™” technology.

**Specifications:**
- ACEA E9 / E7 • API CJ-4
- CUMMINS : CES 20081
- BAUDOIN : SMB 5
- VOLVO VDS-4

**Use:**
New depolluted engines in:
Coastal and Inland Marine and harbour machines

**Advantages:**
- Low SAPS™ technology
- Adapted to engines equipped with selective catalytic reduction (SCR) units

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**CAPRANO TDI 15W-40**

Very high performance lubricant specially developed for the most modern high speed marine Diesel engines.

**Specifications:**
- ACEA E7 / E5 • API CI-4
- BAUDOIN Performance B • CUMMINS CES 20078
  (20077 / 20076) • MAN M3275 • VOLVO VDS-3 • MTU Category 2 • Complies with CATERPILLAR ECF-2
- MITSUBISHI medium speed • Reduction drives/ Reversing gear: ZF TE-ML 04C

**Use:**
Can be used for lubricating auxiliary units and transmission systems

**Advantages:**
- Ensures longer engine life and internal engine cleanliness
- Maintains engine efficiency
- Highly effective in protecting against liner polishing
- Excellent wear and corrosion control

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**CAPRANO TDH 15W-40**

High performance lubricant specially developed for high speed marine Diesel engine and also suitable for all naturally-aspirated or turbocharged Diesel engines.

**Specifications:**
- ACEA E5 • API CH-4/SL
- BAUDOIN Performance B • CUMMINS CES 20071
  / 20072 / 20076 • MAN M3275 • MTU Category 2
- VOLVO VDS-2 • Complies with CATERPILLAR ECF 1-a
- Reduction drives/ Reversing gear: ZF TE-ML 04C
- Suitable for engines: MITSUBISHI, MWM, PERKINS...

**Use:**
Can be used for lubricating auxiliary units and transmission systems

**Advantages:**
- Ensures longer engine life and internal engine cleanliness
- Maintains engine performance and efficiency
- Good wear and corrosion control
- Highly effective in preventing liner polishing

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(1) “SAPS”: Sulphated ashes, phosphorus and sulfur

**Lubricants dedicated to the latest technology high-speed engines and use under severe conditions**
Monograde lubricants for 4-stroke Diesel engines

Lubricants dedicated to the most powerful propulsion engines

CAPRANO MT 30/40

High performance monograde lubricants for 4 Stroke Diesel engines used in River and Coastal shipping.

Specifications:
- ACEA E7 • API CH-4 / CG-4 / CF-4 / CF
- NATO O - 278 (SAE 40) • MTU Category 2 (TBN > 12)
- BAUDOUIN Performance A • ZF 04B • ABC Série DX/DZ
- CATERPILLAR 3116 /3126 MUL Marine engines • DEUTZ / MWM Medium and Big engines • WARTSILA-POYAUD UD series
- MITSUBISHI U « medium speed » series engines • BOLNES, MAK, STORK...
- Reduction drive / reversing gear : Approved ZF TE ML 04A, 04B MASSON, BAUDOUIN

Use:
Marine Diesel engine, Static engine, Transmission systems

Advantages:
- Excellent detergent and dispersant capabilities which avoid ring sticking and guarantee internal engine cleanliness in all running conditions
- Good antiwear and anticorrosion capacities providing Engine and Transmission durability

CAPRANO M 30/40

Monograde oil for fast and semi-fast Diesel engines used in Inland or Coastal Navigation.

Specifications:
- API CF
- BAUDOUIN SMB-3 / Performance A
- WARTSILÄ-POYAUD SERIES W and UD
- MAN Diesel &Turbo • ZF TE ML 04A / 04B
- REINTJES BV 2060/3 & 4 and BV 1597/3 & 4
- RENK Marine gearboxes • FLENDER A 66
- Engines : ABC, DEUTZ, MAK, ...
- Reduction / reversing gear : BAUDOUIN, MASSON, FINNOY

Use:
Propulsion and auxiliary engines, Transmission systems

Advantages:
- Ensures long engine and transmission system life
- High detergent, dispersant and antiwear capabilities, ensuring cleanliness and long life for engine and transmission systems.

CAPRANO TD 30/40

Monograde detergent lubricants developed for naturally aspirated or turbocharged 4-strokes engines.

Specifications:
- ACEA E2 • API CF
- ABC • BAUDOIN SMB-3 • DEUTZ • BOLNES • MAK • STORK
- Reduction drives/ Reversing gear: ZF TE-ML 04A / 04B
- Suitable for Reduction drives/ Reversing gear BAUDOUIN, MASSON

Use:
Can be used for lubricating stationary units, transmission systems, reduction drives and reversing gear.

Advantages:
- Excellent detergent and dispersant capability preventing formation of deposits
- Outstanding wear and corrosion control
- Ensures longer engine and transmission system life
2-stroke Diesel engines

Monograde lubricant

MILKANO TC 30/40

Monograde detergent lubricants specially designed for 2-stroke Diesel engines turbocharged or naturally aspirated and operating in severe conditions.

Specifications:
API CF-2
DETON DIESEL 53, 71, 92 and 149 Marine

Use:
Specially recommended for lubricating 2-stroke Detroit Diesel engines

Advantages:
- Good detergent-dispersant properties, preventing deposit formation at low temperatures
- Excellent resistance to oxidation
- Excellent thermal stability
- High antiwear capability and excellent anticorrosion properties
**Hydraulics lubricants**

**HYDROFLO CT**

Hydraulic fluid with **very high viscosity index and shear resistance**, particularly recommended for high working pressures (over 200 bar).

- **Specifications:**
  - ISO 6743/4 - HV
  - DIN 51524 p.3 - HVLP
  - AFNOR NF 48 603 - HV

- **Advantages:**
  - High antiwear capability ensuring a long life for mechanical components
  - Extremely stable viscosity in any conditions
  - High resistance to oxidation and hydrolysis
  - Good rust and corrosion control

**BIOHYDRAN TMP 46, 68, 100**

Synthetic biodegradable hydraulic fluids of high quality, specially recommended when there is a danger of contaminating water or sensitive environments which must be preserved.

- **Specifications:**
  - VDMA 24568: HEES
  - ISO 15380: HEES

- **Advantages:**
  - Environmentally friendly
  - Excellent resistance to mechanical shear
  - Excellent antiwear and anticorrosion properties allowing to extend the life of mechanical components
  - Very high natural viscosity number and performs very well at low temperature

**CARTER EP 150, 220, 320**

Minerals lubricants specially developed for **lubricating enclosed gearing**, operating in severe conditions.

- **Specifications:**
  - DIN 51517 Part 3 = CLP group
  - NF-ISO 6743-6 category CKD
  - AGMA 9005 - D94
  - CINCINNATI MILACRON
  - DAVID BROWN

- **Advantages:**
  - Excellent extreme pressure and antiwear properties
  - Good anticorrosion properties
  - Good thermal stability and excellent filterability

(1) Complying with the European Eco-label
Greases

### CERAN XM 220
Extreme-pressure water resistant high temperature “NEW GENERATION” calcium sulfonate complex grease.

- **Specifications:**
  - ISO 6743-9: L-XCFIB 1/2
  - DIN 51 502: KP1/2R -30

- **Advantages:**
  - NEW GENERATION calcium sulfonate complex soap with enhanced properties in terms of water resistance, load capacity, thermal resistance
  - Suitable for shock loaded applications in industry even in severe demanding environment (water, dust, high temperature)
  - The NEW GENERATION of calcium sulfonate complex soap allows to keep outstanding CERAN XM 220 performances even in case of high speed applications where normally polyurea or lithium complex greases are requested

### MULTIS EP 2
Multi purpose extreme pressure lithium/calcium grease.

- **Specifications:**
  - ISO 6743-9: L-XCEEB 2
  - DIN 51 502: KP2K -25

- **Advantages:**
  - Long lasting lubricant film. Extended life cycle of the lubricated parts
  - Can be mixed with most conventional soap-based greases
  - Remarkable pumpability

### BIOMULTIS EP 2
High-performance extreme pressure biodegradable lithium grease.

- **Specifications:**
  - ISO 6743-9: L-XCEEB 2
  - DIN 51502: KP2K-30

- **Advantages:**
  - Extensive application range
  - Durable film
  - Low environmental impact: biodegradable, low toxicity to aquatic organisms

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(1) Complying with the European Eco-label
4-stroke outboard gasoline engines

Specifications:
NMMA FC-W • API SL
HONDA / YAMAHA / BOMBARDIER / MERCURY / EVINRUDE…

NEPTUNA SPEEDER 10W-30
Latest generation synthetic based oil developed for 4-stroke Gasoline engines operating at full load. NEPTUNA SPEEDER 10W-30 has been specially developed for leisure boats sector engines and meets the specifications of the most stringent and most recent standard: NMMA FC-W.

Specifications:
NMMA FC-W • API SL
HONDA / YAMAHA / BOMBARDIER / MERCURY / EVINRUDE…

Advantages:
- High resistance to the marine environment
- Exceptional temperature resistance

INNOVATION AND ENVIRONMENT PROTECTION
NEPTUNA is the new lubricants range specially designed by TOTAL for leisure boats. All the Total group’s expertise has been devoted to leisure boats professionals and yachtsmen.

Environment friendly
Total places the environmental approach at the very heart of its activity and therefore offers biodegradable oils.

NEPTUNA: FOR OPTIMUM PERFORMANCE AND LONGER ENGINE LIFE.

A complete range of lubricants for Gasoline and Diesel engines
Recognized properties: high performance, consistent quality, cleaner engine. Products at the sharp end of technology. These lubricants meet the manufacturers’ technological requirements and the latest international standards (ACEA, NMMA, API...).
2-stroke engines

NEPTUNA 2T BIO-JET
A biodegradable synthetic lubricant for 2-stroke Gasoline engines. NEPTUNA 2T BIO-JET combines high performance and environment protection.

Specifications:
NMMA TC-W3 RL
Suitable for: EVINRUDE, JOHNSON, MERCURY, SUZUKI, YAMAHA, KAWASAKI...

Advantages:
- Excellent lubrication at extreme temperatures
- Smoke free
- Biodegradable

NEPTUNA 2T RACING
Synthetic-based lubricant for 2-stroke Gasoline engines. NEPTUNA 2T RACING is particularly suited to high speed engines.

Specifications:
NMMA TC-W3 RL
Suitable for: EVINRUDE, JOHNSON, MERCURY, SUZUKI, YAMAHA, KAWASAKI, MARINER...

Advantages:
- Resists the high pressures and temperatures of modern engines

NEPTUNA 2T SUPER SPORT
Mineral lubricant for 2-stroke Gasoline engines. NEPTUNA 2T SUPER SPORT is recommended for engines operating in normal conditions.

Specifications:
NMMA TC-W3
Suitable for: JOHNSON, MARINER, YAMAHA...

Advantages:
- Good detergence level and improved antiwear performance
**Engine Biolubricant**

**BIOTRAFFIC 1000 FE 10W-30**

Very high performance synthetic biodegradable lubricant, coming from renewable raw material, dedicated to all engine types and furthermore providing substantial Fuel Economy.

**Specifications:**

**Meets the requirements:**
- VOLVO VDS-3 • MAN 3275 • MTU Category 2 • CUMMINS CES 20078 • CATERPILLAR ECF-2 • DEUTZ DQC III-10 • DEERE PS Tier 3 • PERKINS • SISU • VALTRA • PETER

**Use:**
- All depolluted engines according to TIER 1, 2, 3 & 4 and EURO I, II, III, IV & V

**Advantages:**
- Performances
- Fuel Economy
- Environment friendly

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**Transmission Biolubricant**

**BIOTRANS LS FE 75W-90**

Very high performance synthetic biodegradable lubricant, coming from renewable raw material, dedicated to outdrives and transmissions.

**Specifications:**
- API GL-5 • MIL-L 2105D

**Advantages:**
- Good compatibility with transmission organ seals
- Environment friendly
- Fuel Economy

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**What is a Bio-lubricant?**

The term bio-lubricant applies to all lubricants which are both rapidly biodegradable and nontoxic for humans and aquatic environments. A bio-lubricant can be vegetable oil-based or based on synthetic esters.

**What is the Eco-label?**

Published in 2005, the European Eco-label imposes a requiring specification book to which Total products answer completely.

[www.eco-label.com](http://www.eco-label.com)
**FLUIDE G3**

Special oil recommended for transmissions requiring a Dexron III® fluid. FLUIDE G3 can be used as a hydraulic fluid for helm, inverter or trim.

- Specifications:
  - Grade ISO VG 32
  - GM DEXRON III®

- Advantages:
  - Optimized friction properties
  - Resists the pressures in gearing and in precision hydraulic circuits
  - Stable performance even with low quantity of water
TOTAL ANAC: an expert diagnosis system

The TOTAL ANAC service makes a diagnosis of all your equipment’s mechanical components (engine, transmissions, hydraulics) by in-service oil samples. In case of deviatory analysis results advise is given on corrections actions to be executed in order to avoid damages or excessive wear.

TOTAL ANAC’S aims:
TOTAL ANAC is both a preventive and corrective service which gives your company a real competitive advantage.

- Lower operating costs due to reduced equipment repair or down time.
- Optimises maintenance of your equipment.

Proven reliability:
- More than 4,000,000 diagnosis carried out
- More than 470,000 mechanical components monitored
- More than 30 years’ experience

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