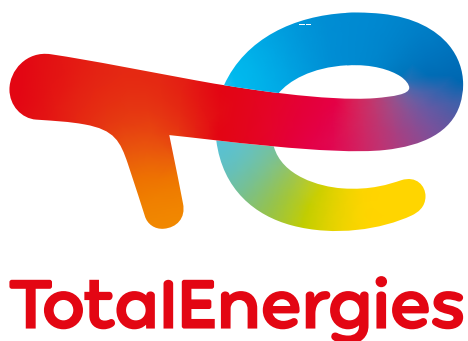


Cranes lubricants range



A range of lubricants
to lift you higher



TotalEnergies

a multi-energy company

With a presence in more than 150 countries, TotalEnergies is a strong partner of choice for fuel and lubricants for its customers. Through innovation and technology leadership, TotalEnergies develops a broad range of high quality petroleum products. Each product is designed to suit customer specific needs for use in the harshest conditions.

TotalEnergies continuously invests in R&D, cooperates closely with equipment manufacturers, and carries out field tests to improve product formulations, to ensure maximum performance, and to minimise customers' operating costs.

TotalEnergies

By numbers



5800
Employees



130
Researchers



160
Countries



CRANES

Cranes are essential vehicles in the field of construction, playing a significant role in lifting and moving heavy materials from one location to another. These versatile machines come in various sizes and types, enabling construction workers to perform tasks efficiently and safely.

By providing the necessary support in large-scale projects, cranes have become indispensable in today's fast-paced construction industry.

Fixed

These cranes, specifically designed for a single-space operation, efficiently maneuver materials along a predetermined path. Often, they are attached to the roof or the side of a structure, ensuring optimal positioning.

Alternatively, they can be anchored directly to the ground for added stability. Regardless of the method employed, these cranes are built to remain stationary throughout the construction process, consistently delivering dependable performance.



Mobile

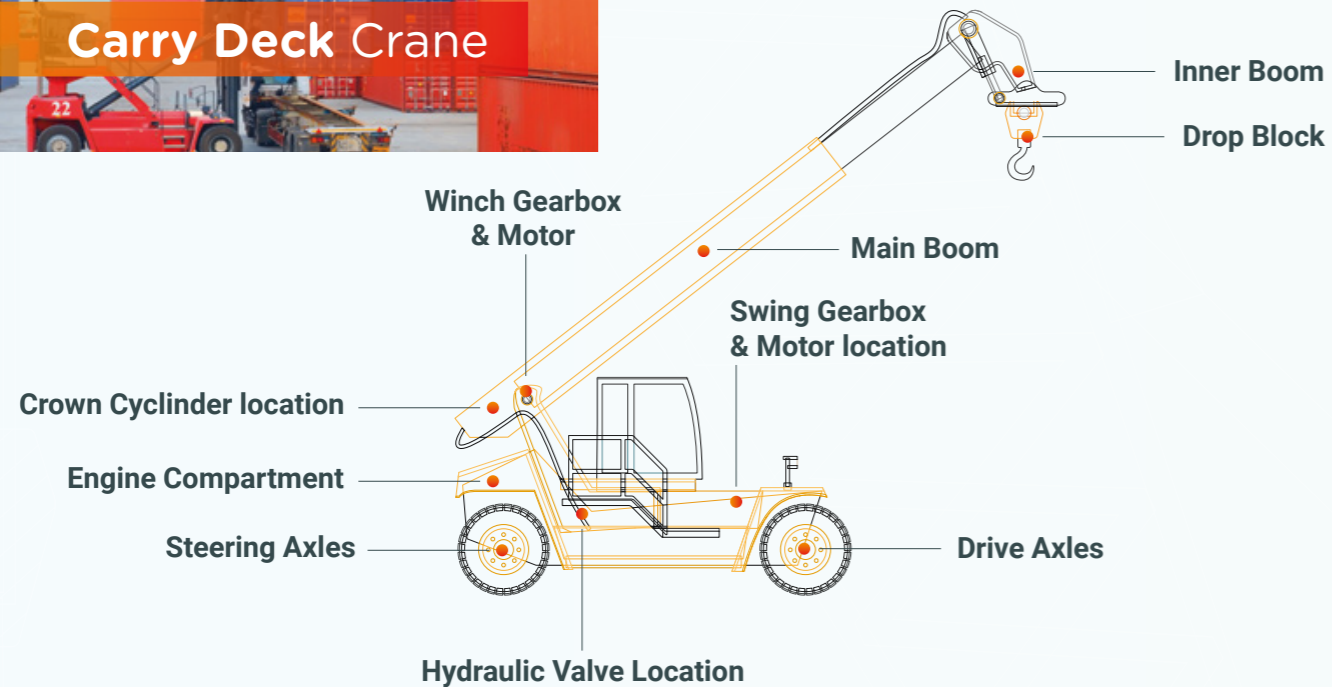
Mobile cranes are specifically designed to navigate job sites efficiently during construction projects. Their primary purpose is to transport materials from one location to another with ease and precision.

Equipped with advanced technology and versatile features, they play a crucial role in optimizing construction processes.

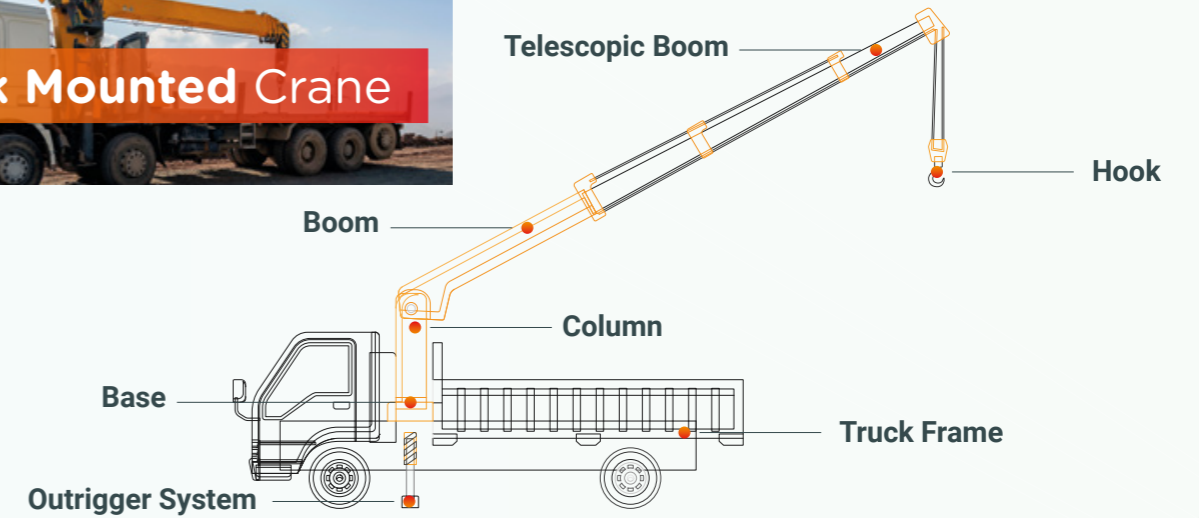
Crane Components



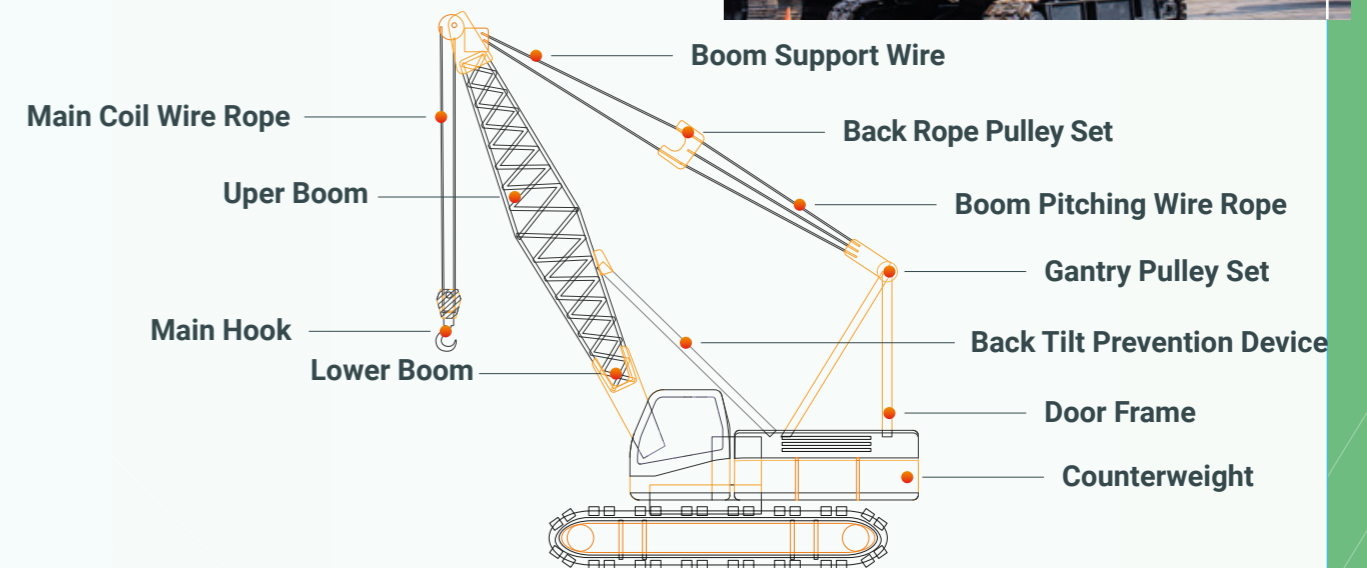
Carry Deck Crane



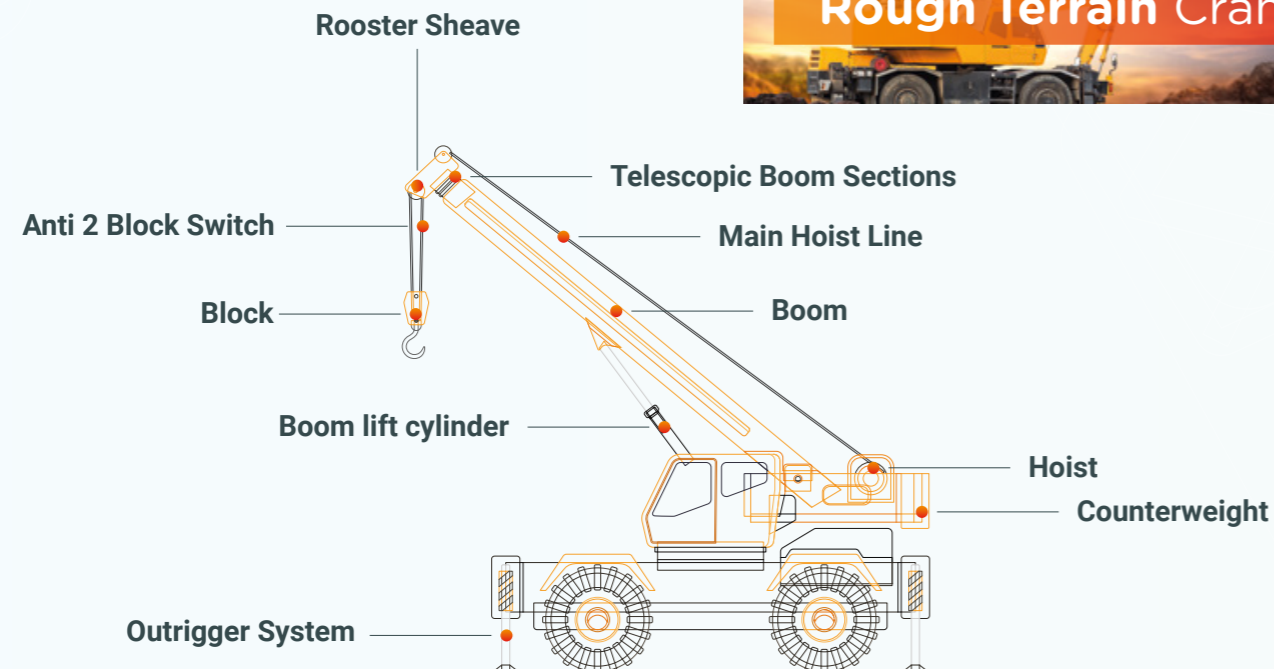
Truck Mounted Crane



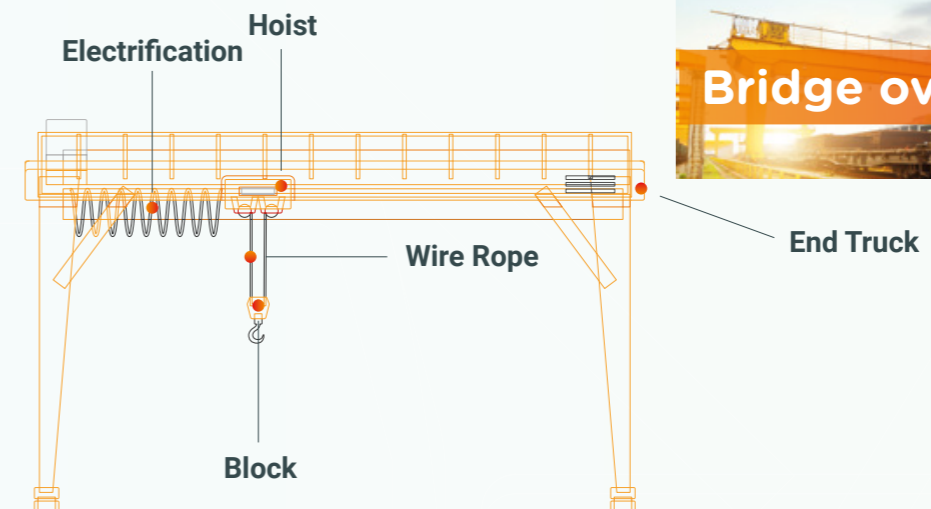
Crawler Crane



Rough Terrain Crane

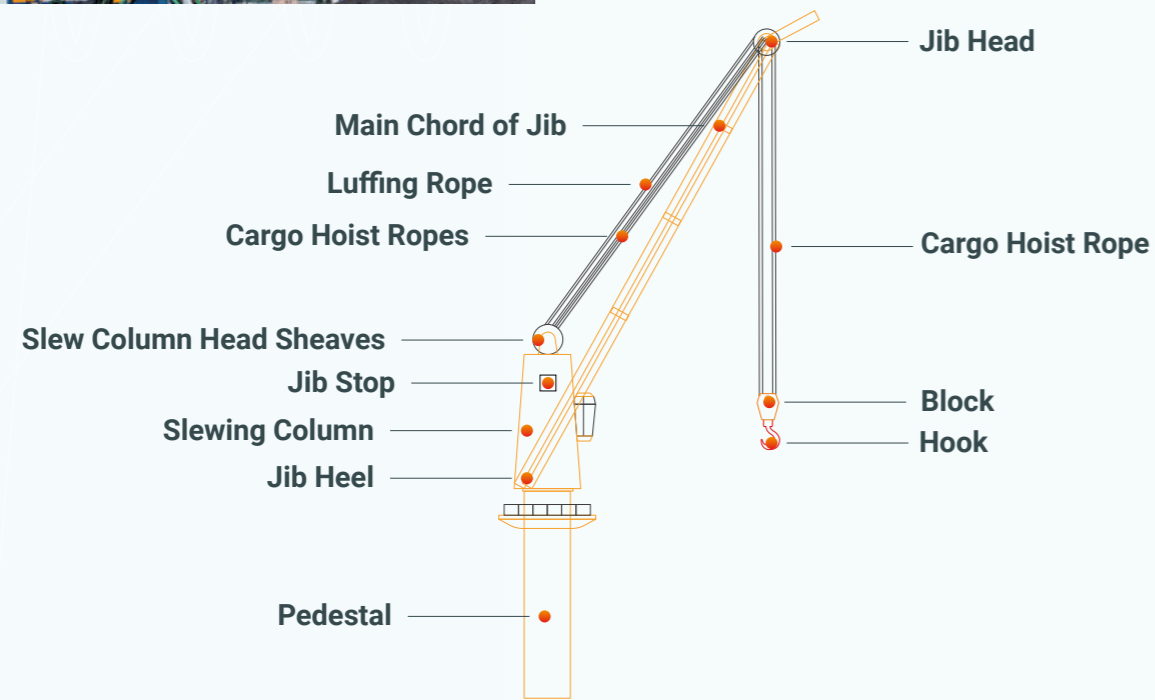


Bridge overhead Crane

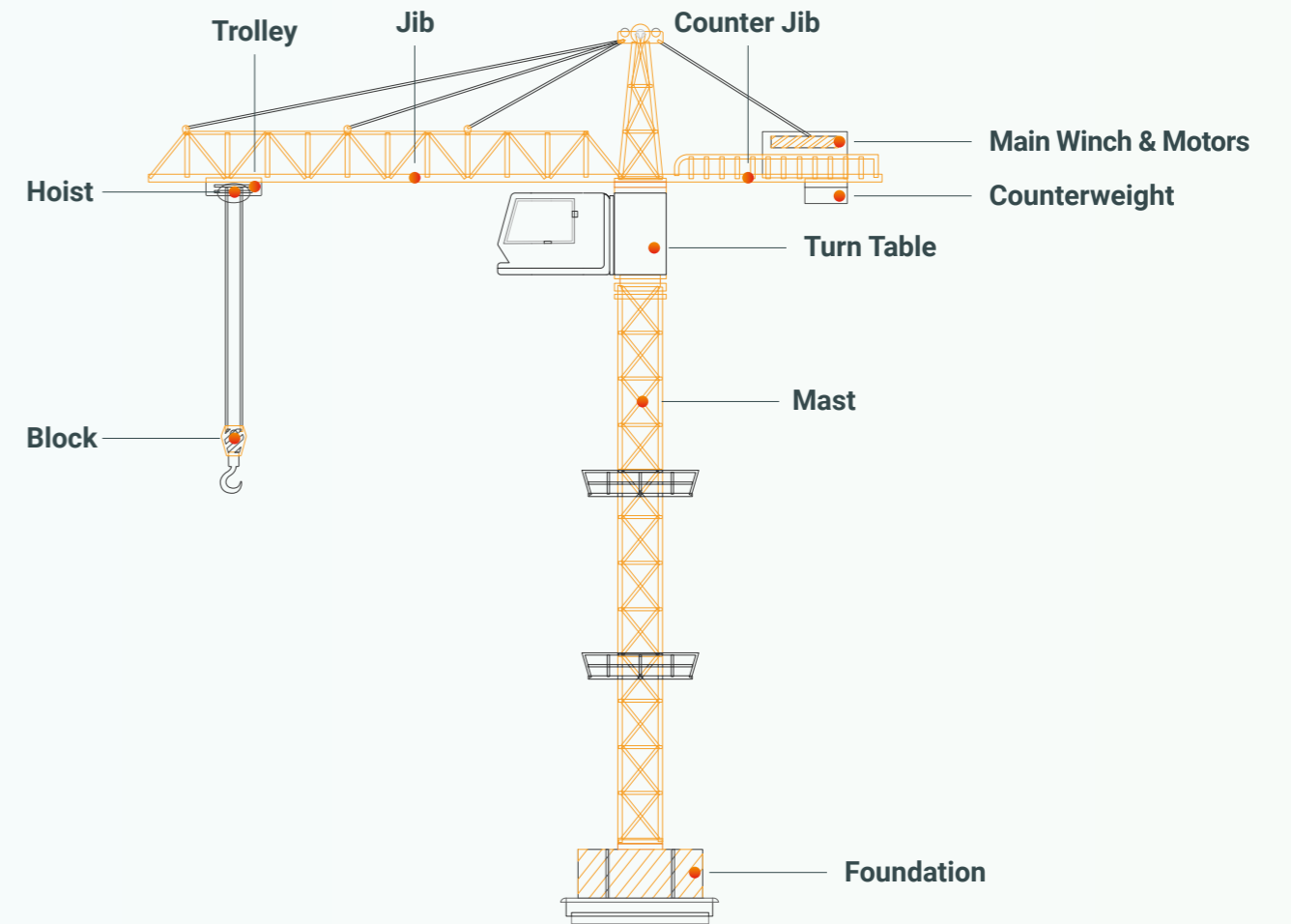




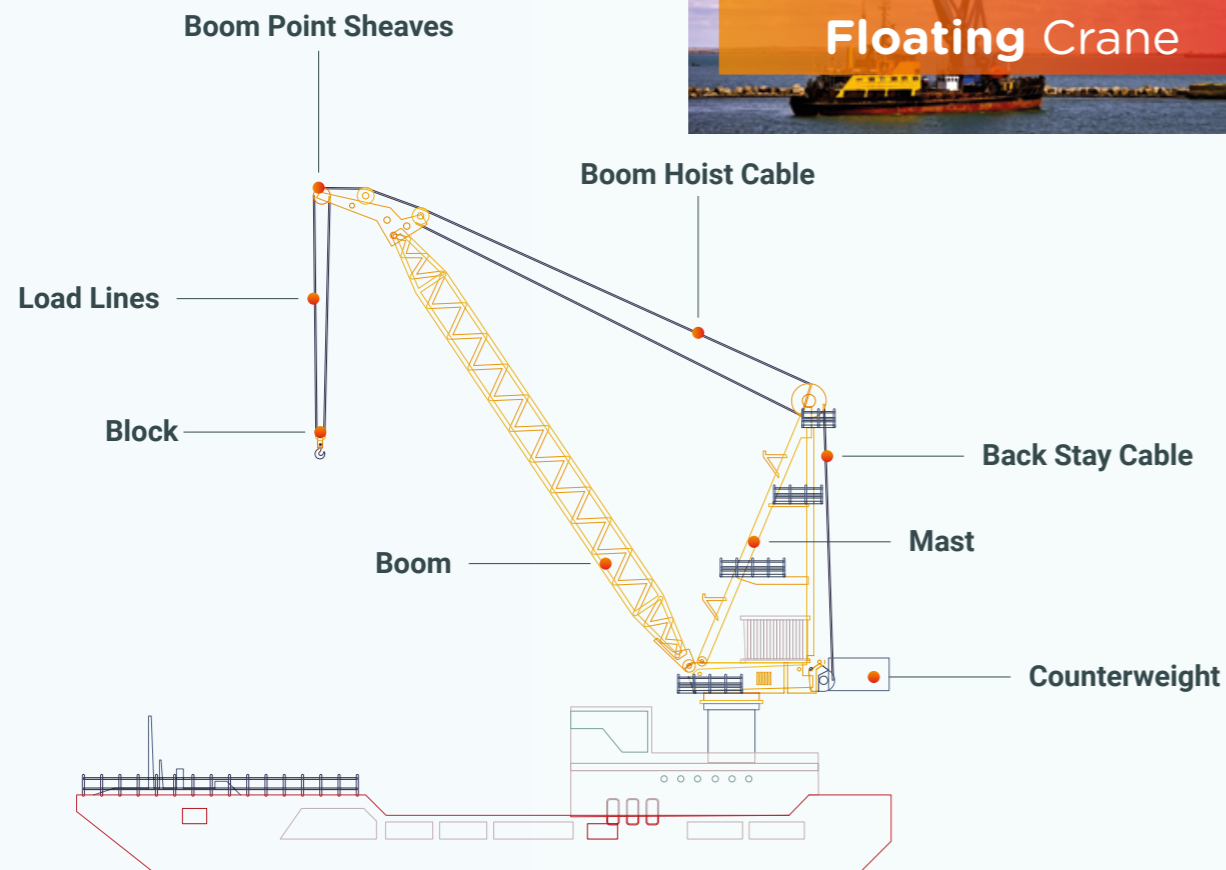
Bulk-Handling Crane



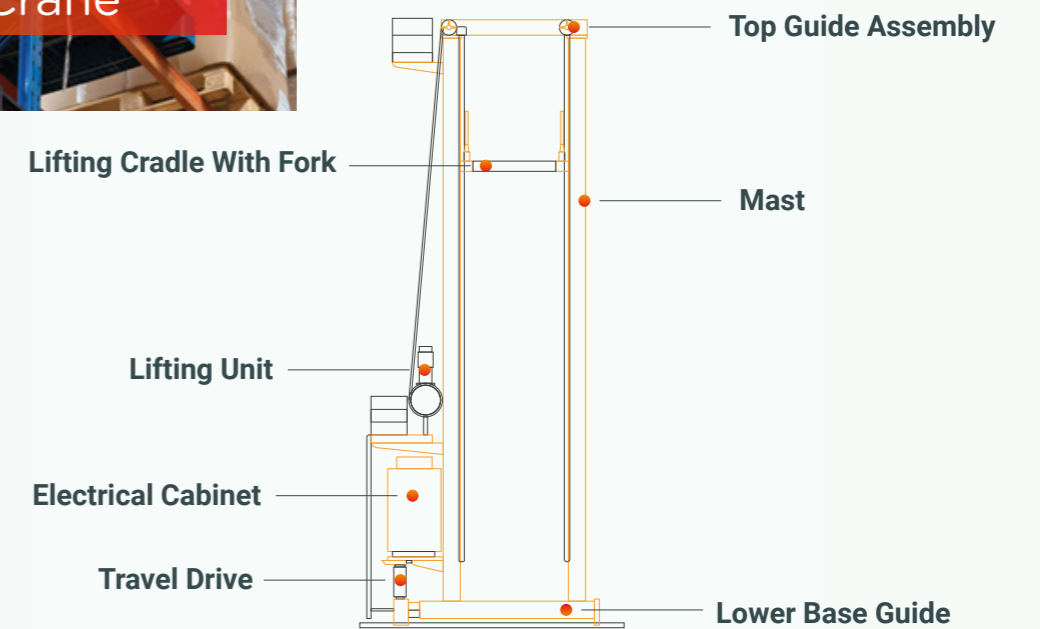
Tower Crane



Floating Crane



Stacker Crane



Lubricant Proposal



Engine

RATIONALISES TYPES OF ENGINE OILS REQUIRED ACROSS FLEET



Approved by over 200 Heavy Vehicle & Equipment Manufacturers.

- 100% compatible with the latest engine technology of these manufacturers.
- Achieves various standard specifications (API, ACEA, JASO, etc.)
- One product range fits many applications

Formulated with high oxidation resistance and high soot dispersancy additives

- Works well under even the most extreme conditions
- One engine oil range that suits many different working conditions

COST SAVINGS DUE TO GREATER FUEL ECONOMY & LOWERED OIL CONSUMPTION



Formulated with anti-oxidation additives

- Resists oxidation even under extreme temperatures.
- Extends oil drain intervals, lowering operating and maintenance costs.

Formulated to provide viscosity control and friction reduction, providing Fuel Economy.

- Reduces and keeps consistent the fuel consumption without compromising performance.
- Rubia Works FE Range is approved by Heavy Vehicle Manufacturers for use in their engines to achieve their fuel economy targets.

REDUCES FLEET DOWNTIME & MAINTENANCE COST



Formulated with special anti-wear additives

- Anti-wear additives prevent surface degradation of mechanical parts for longer, reducing friction and mechanical wear and tear.
- Increases the lifespan of engines.

Detergent properties of Rubia Works range prevent piston deposits

- Maintains engine cleanliness, reducing the chances of engine faults or breakdowns.

PROTECTS THE ENVIRONMENT



Formulated for low levels of Sulphated Ash, Phosphorus and Sulphur (Low SAPS)

Compatible with exhaust treatment systems such as diesel oxidation catalysts, diesel particulate filters (DPF) and selective catalytic reactor. Low SAPs technology prevents clogging of DPFs, allowing them to reduce exhaust emissions effectively and for longer.

Commercial names	International specifications	OEM approvals	OEM meets the requirements of
RUBIA WORKS 5000 FE 5W-30 	<ul style="list-style-type: none"> • ACEA E4, E6, E7, E8, E9, E11 • API CK-4/CJ-4/CI-4 plus/CI-4/CH-4 • JASO DH-2 	<ul style="list-style-type: none"> • DEUTZ DQC IV-18 LA • MTU Category 3.1 • MAN M 3677/M 3775/M 3777 • DTFR 15C110 (228.51) • DTFR 15C120 (228.52) • DTFR 15C100 (228.31) • VOLVO VDS-4.5 • MACK EOS 4.5 • RENAULT RLD-3 • SCANIA LDF-4 • CUMMINS CES 20086 	<ul style="list-style-type: none"> • CATERPILLAR ECF-3 / ECF-2 / ECF-1-a • LIEBHERR LH 01 ENG LA / LH-01 • DAF • DEUTZ TTCD <p>Suitable for:</p> <ul style="list-style-type: none"> • IVECO FPT TLS E6 • MAN M 3477 • BELL • KOMATSU • WIRTGEN • VOGELE, etc.
RUBIA WORKS 5000 10W-40 	<ul style="list-style-type: none"> • ACEA E6, E7, E8, E9, E11 • API CK-4/CJ-4/CI-4 plus/CI-4/CH-4 • JASO DH-2 	<ul style="list-style-type: none"> • DEUTZ DQC IV-18 LA • RENAULT RLD-3 • MTU Category 3.1 • MAN M 3775 • MACK EOS 4.5 • DTFR 15C110 (228.51) • DTFR 15C120 (228.52) • DTFR 15C100 (228.31) • VOLVO VDS-4.5 • CUMMINS CES 20086 	<ul style="list-style-type: none"> • CATERPILLAR ECF-3 / ECF-2 / ECF-1-a • LIEBHERR LH-01 ENG LA / LH-01 <p>Suitable for:</p> <ul style="list-style-type: none"> • IVECO FPT TLS E9 • IVECO FPT TLS CK-4 • MAN M 3477 • KOMATSU • WIRTGEN • VOGELE, etc.
RUBIA WORKS 4000 FE 10W-30 	<ul style="list-style-type: none"> • ACEA E7, E9, E11 • API CK-4 / CJ-4 / CI-4 plus / CI-4 / CH-4 / SN • JASO DH-2 	<ul style="list-style-type: none"> • DEUTZ DQC III-18 LA • VOLVO VDS-4.5 • MTU Category 2.1 • RENAULT VI RLD-3 • MACK EO-S 4.5 • DTFR 15C100 (228.31) • CUMMINS CES 20086 • DETROIT DIESEL DFS 93K222 • MAN M3775 • ISUZU Recommended Lubricant (2020) 	<ul style="list-style-type: none"> • CATERPILLAR ECF-3 / ECF-2 / ECF-1-a <p>Suitable for:</p> <ul style="list-style-type: none"> • KOMATSU • HITACHI • JCB • KOBELCO • CASE, etc.
RUBIA WORKS 4000 15W-40 	<ul style="list-style-type: none"> • ACEA E7, E9, E11 • API CK-4/CJ-4/CI-4 plus/CI-4/CH-4/SN • JASO DH-2 	<ul style="list-style-type: none"> • DEUTZ DQC III-18 LA • VOLVO VDS-4.5 • MTU Category 2.1 • RENAULT RLD-3 • MACK EO-S 4.5 • DTFR 15C100 (228.31) • CUMMINS CES 20086 • DETROIT DIESEL DFS 93K222 • MAN M3775 • ALLISON TES 439 • ISUZU Recommended Lubricant (2020) 	<ul style="list-style-type: none"> • CATERPILLAR ECF-3 / ECF-2 / ECF-1-a • FORD WSS-M2C171-F1 <p>Suitable for:</p> <ul style="list-style-type: none"> • KOMATSU • HITACHI • JCB • KOBELCO, etc.
RUBIA WORKS 4000 10W-40 	<ul style="list-style-type: none"> • ACEA E7, E9, E11 • API CK-4/CJ-4/CI-4 plus/CI-4/CH-4/SN • JASO DH-2 	<ul style="list-style-type: none"> • DEUTZ DQC III-18 LA • VOLVO VDS-4.5 • MTU Category 2.1 • RENAULT TRUCKS RLD-3 • MACK EO-S 4.5 • DTFR 15C100 (228.31) • CUMMINS CES 20086 • DETROIT DIESEL DFS 93K222 • MAN M3775 	<ul style="list-style-type: none"> • CATERPILLAR ECF-3 / ECF-2 / ECF-1-a <p>Suitable for:</p> <ul style="list-style-type: none"> • IVECO FPT TLS E9 • IVECO FPT TLS CK-4 • KOMATSU • HITACHI • JCB • KOBELCO, etc.
RUBIA WORKS 1000 Plus 15W-40	<ul style="list-style-type: none"> • ACEA E7 • JASO DH-1 • API CI-4 Plus/CI-4/CH-4/SL • Global DHD-1 	<ul style="list-style-type: none"> • CUMMINS CES 20078 • RENAULT VI RLD-2 • DEUTZ DQC III-18 • MACK EO-N • MTU Category 2 • DETROIT DIESEL DFS 93K214 • DTFR 15B110 (228.3) • VOLVO VDS -3 	<ul style="list-style-type: none"> • CATERPILLAR ECF-2, ECF-1-a • MAN M 3275 <p>Suitable for:</p> <ul style="list-style-type: none"> • IVECO FPT T2 E7 • KOMATSU • HITACHI • SCANIA • MITSUBISHI • DEERE • PERKINS • CASE • DAF • KUBOTA • NEW-HOLLAND • LIEBHERR • JCB, etc.
RUBIA WORKS 1000 15W-40	<ul style="list-style-type: none"> • ACEA E7 • JASO DH-1 • API CI-4/CH-4/CF/SL • Global DHD-1 	<ul style="list-style-type: none"> • CUMMINS CES 20078/20077/20076 • RENAULT VI RLD-2 • DEUTZ DQC III-18 • MACK EO-N • MTU Category 2 • DETROIT DIESEL DDC 93K215 • DTFR 15B110 (228.3) • VOLVO VDS -3 • ALLISON TES 439 	<p>(This row continues the OEM requirements from the previous row)</p>

Hydraulic system

Equivis ZS 32 / 46 / 68

Lubricants especially suitable for hydraulic systems working under extreme temperature variations and equipment operating outside.

International Specifications

- AFNOR NF E 48-603 HV • ISO 6743 / 4 HV
- DIN 51524 P3 HVLP • JCMAS HK VG46W

Manufacturers' Approvals

- CINCINNATI MILACRON P68 / P69 / P70
- VICKERS M-2950S, -I-286

Equivis AF 32 / 46 / 68

Long-drain, ashless, high viscosity index hydraulic oils.

International Specifications

- ISO 6743 / 4 HV • DIN 51524-3 HVLP

Azolla ZS 32 / 46 / 68

High-performance, anti-wear hydraulic oils.

International Specifications

- AFNOR NF E 48-603 HM • ISO 6743 / 4 HM
- DIN 51524 P2 HLP

Manufacturers' Approvals

- CINCINNATI MILACRON P68 / P69 / P70
- VICKERS M-2950S, -I-286



Dynatrans ACX* SAE 10W-30

Specially formulated lubricant for hydraulic systems and Transmissions of Off-Road machinery.

International Specifications

- API GL-4/ API CF

Meets the requirements of

- CATERPILLAR TO-4
- KOMATSU Micro Clutch Test (JCMAS)
- ZF TE-ML 03C

Suitable for

HITACHI, KOMATSU, DANA, EATON-FULLER, ROCKWELL, JCB, etc...

Dynatrans ACX* SAE 10W

Specially formulated lubricant for hydraulic systems of Off-Road machinery.

Can also be used for transmissions at low ambient temperatures according to manufacturer's recommendations

International Specifications

- API GL-4 / CF

Manufacturer's Approvals

- ZF TE-ML 03C

Meets the requirements of

- API GL-4 / CF
- CATERPILLAR TO-4
- ALLISON C4 (Obsolete)
- KOMATSU Micro Clutch Test (JCMAS)

Suitable for

HITACHI, KOMATSU, DANA, EATON-FULLER, ROCKWELL, JCB, etc...

Fluidmatic D3*

Automatic transmission lubricant also dedicated to hydraulic systems and power steering application.

Manufacturers' Approvals

- DTFR 13C170 (236.9)
- ZF TE-ML 04D/ 14B/ 16L/ 20B/ 25B
- VOITH H55.6336.xx/ H55 6335.xx
- MAN 339 Type V1/ V2/ Z2/ Z11
- Volvo 97341
- DANA-OHTM-ATF (Approval ID 23C-0004)

Meets the requirements of

- GM Dexron III G / III H
- Ford Mercon

Suitable for

- Allison C4

Transmission 1/2

Dynatrans ACX* SAE 30

Lubricant for gearboxes equipped with specific brake friction discs.

Can also be used for hydraulic systems at high ambient temperatures according to manufacturer's recommendations

International Specifications

- API GL-4 / CF

Manufacturer's Approvals

- ZF TE ML 03C • ZF TE ML 07F

Meets the requirements of

- API GL-4/ CF
- CATERPILLAR TO-4
- ALLISON TES 439
- ALLISON C4 (Obsolete)
- KOMATSU Micro Clutch test (JCMAS)

Suitable for

- CATERPILLAR • KOMATSU • DANA • EATON-FULLER
- ROCKWELL • JCB • etc

Dynatrans ACX* SAE 10W-30

Specially formulated lubricant for hydraulic systems and Transmissions of Off-Road machinery.

International Specifications

- API GL-4/ API CF

Meets the requirements of

- CATERPILLAR TO-4
- KOMATSU Micro Clutch Test (JCMAS)
- ZF TE-ML 03C

Suitable for

HITACHI, KOMATSU, DANA, EATON-FULLER, ROCKWELL, JCB, etc...

Dynatrans ACX* SAE 10W

Can be used for transmissions at low ambient temperatures according to manufacturer's recommendations

International Specifications

- API GL-4 / CF

Manufacturer's Approvals

- ZF TE-ML 03C

Meets the requirements of

- API GL-4 / CF
- CATERPILLAR TO-4
- ALLISON C4 (Obsolete)
- KOMATSU Micro Clutch Test (JCMAS)

Suitable for

HITACHI, KOMATSU, DANA, EATON-FULLER, ROCKWELL, JCB, etc...

*Please refer to and follow the OEM recommendations


Transmission 2/2

Dynatrans MPV*	
Lubricant for transmissions with wet brakes.	
Meets the requirements of	<ul style="list-style-type: none"> MASSEY FERGUSON CMS M1143 ALLISON C-4 JOHN DEERE JDM J20C CLAAS / RENAULT AGRICULTURE FORD FNHA 2C 201.00 / M2C134-D Mc CORMICK HTX LIEBHERR
International Specifications	Suitable for
• API GL-4	<ul style="list-style-type: none"> CASE MS1207/MS1209 CNH MAT 3505/3509/3525/3526/3540 CATERPILLAR TO-2 NEW HOLLAND NH 410C/NH 410B KOMATSU AXO 80 MASSEY FERGUSON CMS M1135/M1141 AGCO: ALLIS 821 XL JCB STANDARD 4000/2200
Manufacturers' Approvals	
<ul style="list-style-type: none"> MASSEY-FERGUSON CMS M1145 VALTRA G2-08 ZF TE ML 03E/03L/05F/06P/17E/21F VOLVO CE WB 101 	

Traxium Gear 7 SAE 80W-90	
High-performance synthetic oil developed for synchronised or non-synchronised manual gearboxes, axles, and reduction gears.	
International Specifications	• API GL-4
Manufacturers' Approvals	<ul style="list-style-type: none"> Mercedes-Benz Trucks: DTFR 13B100 (235.1) ZF TE-ML 16A, 17A, 19A
Suitable for	• MAN 341 Typ E1

Traxium Dual 9 FE SAE 75W-90	
High-performance synthetic oil developed for synchronised or non-synchronised manual gearboxes, axles, and reduction gears.	
International Specifications	• API GL-4 • API GL-5 • API MT-1 • MIL-PRF-2105E • MIL-L-2105D • SAE J2360
Manufacturers' Approvals	<ul style="list-style-type: none"> DTFR 12B140 (235.8) MAN 341 Typ Z2 MAN 342 Typ S1 SCANIA STO 1:0 VOLVO 97312 ZF TE-ML 02B / 05A / 12L / 12N / 16F / 17B / 19C / 21A MERITOR 076-N
Suitable for	• EATON-FULLER

Fluidmatic D3*	
Automatic transmission lubricant also dedicated to hydraulic systems and power steering application.	
Manufacturers' Approvals	<ul style="list-style-type: none"> DTFR 13C170 (236.9) ZF TE-ML 04D/14B/16L/20B/25B VOITH H55.6336.xx/H55 6335.xx MAN 339 Type V1/ V2/ Z2/ Z11 Volvo 97341 DANA-OHTM-ATF (Approval ID 23C-0004)
Meets the requirements of	<ul style="list-style-type: none"> GM Dexron IIIG / IIHH Ford Mercon
Suitable for	• Allison C4

 Fluidmatic XLD FE* Extra-long drain automatic transmission fluid.	Manufacturers' Approvals
	<ul style="list-style-type: none"> ZF TE-ML 04D/14B/16L/20B/25B VOITH H55.6336.xx/H55 6335.xx MAN 339 Type V1/ V2/ Z2/ Z11 Volvo 97341 DANA-OHTM-ATF (Approval ID 23C-0004)
	Meets the requirements of
	<ul style="list-style-type: none"> DTFR 13C170 (236.9)* ALLISON C4 TES-228 FORD Mercon V GM Dexron IIIG/ IIHH Mercedes-Benz: MB 236.6 JASO M315-1A
	Suitable for
	• ZF TE-ML 11B • Nissan: AT-Matic D, J, K

Fluidmatic DIII MV*	
A well-balanced fluid for heavy duties and passenger cars equipped with automatic transmissions.	
Suitable for	<ul style="list-style-type: none"> GM Dexron IIIG / IIHH Ford Mercon ZF TE-ML 14A Allison C4 (TES-228)

*Please refer to and follow the OEM recommendations.

Final Drives & Axles

Dynatrans ACX SAE 50	
Lubricant for axles and final drives equipped with specific brake friction discs.	
Meets the requirements of	<ul style="list-style-type: none"> API GL-4/ CF CATERPILLAR TO-4 KOMATSU Micro Clutch test (JCMAS)
Suitable for	<ul style="list-style-type: none"> CATERPILLAR KOMATSU DANA EATON-FULLER ROCKWELL JCB etc.

Traxium Axle 7 SAE 80W-90 SAE 85W-90 SAE 85W-140	
Extreme pressure mineral oil for the lubrication of highly loaded gears (axles, final drives, transfer cases, planetary gearboxes) when an API GL-5 level of performance is required.	
International Specifications	• API GL-5 • MIL-L-2105D
Manufacturers' Approvals	<ul style="list-style-type: none"> 80W-90 > ZF TE-ML 12E, 17B, 19B • MAN 342 type M-1 85W-90 > MAN 342 type M-1 • ZF TE-ML 16C/ 17B/ 19B/ 21A 85W-140 > ZF TE-ML 05A/ 12E/ 16D/ 21A
Meets the requirements of	<ul style="list-style-type: none"> 80W-90 > ZF and MAN hypoid gears, with standard drain interval. 85W-90 > MAN, MERCEDES and ZF hypoid axles, according to the recommended oil change interval. 85W-140 > Lubrication ZF manual transmission with drain interval based on OEM recommendations.

*Please refer to and follow the OEM recommendations.

<h2>Traxium Axle 9</h2> <h3>SAE 80W-90</h3> <p>Extreme pressure mineral oil for the lubrication of highly loaded gears (axles, final drives, transfer cases, planetary gearboxes) when an API GL-5 level of performance is required.</p>	International Specifications <ul style="list-style-type: none"> • API GL-5 • API MT-1 • SAE J2360
	Suitable for <ul style="list-style-type: none"> • SCANIA STO 1:0 • ZF 05A/12L/12M/16B/17B/19B/21A • MAN 342 Typ M-3 • MAN 341 Typ GA-1 • Mercedes-Benz: DTFR 12B110 (235.2) • IVECO RAM1 • Meritor O-76D • Mack GO-J



<h2>Traxium Axle 9 FE</h2> <h3>SAE 75W-90</h3> <p>Extreme pressure mineral oil for the lubrication of highly loaded gears (axles, final drives, transfer cases, planetary gearboxes) when an API GL-5 level of performance is required.</p>	International Specifications <ul style="list-style-type: none"> • API GL-5
	Manufacturers' Approvals <ul style="list-style-type: none"> • SCANIA STO 2:0 A • Meritor O-76M
	Suitable for <ul style="list-style-type: none"> • SAE J2360

<h2>Dynatrans DA</h2> <h3>SAE 80W-90</h3> <h3>SAE 85W-140</h3> <p>Lubricant for axles and differentials equipped with limited-slip disc self-locking systems.</p>	International Specifications <ul style="list-style-type: none"> • API GL-5-LS • MIL-L.2105D
	Manufacturers' Approvals <ul style="list-style-type: none"> • ZF TE ML 05C/21C
	Meets the requirements of <p>Construction & Mining Equipment : LIEBHERR, TEREX, VOLVO, CASE, JCB...</p>

<h2>Dynatrans DAX</h2> <h3>SAE 80W-90</h3> <p>Very high-performance lubricant for axles and differentials equipped with limited slip disc self-locking systems.</p>	Manufacturers' Approvals <ul style="list-style-type: none"> • ZF TE-ML 05N/21N • VOLVO 97321
	Suitable for <ul style="list-style-type: none"> • ZF TE-ML 05C/21C Construction & Mining equipment: LIEBHERR, TEREX, VOLVO, CASE, JCB Agricultural tractors: CLAAS-RENAULT, NEW-HOLLAND (NH-520B/520C), DEUTZ, STEYR, FORD (M2C104-A) 4 Wheel Drive passenger cars and all roads vehicles like: NISSAN, TOYOTA, GM
International Specifications <ul style="list-style-type: none"> • API GL-5 (LS) • MIL-L-2105D 	

Gearbox

<h2>Carter EP*</h2> <h3>ISO VG 68 - 3000</h3> <p>Extreme pressure (EP) lubricants for mineral oils used for enclosed gears operating under severe conditions.</p>
International Specifications <ul style="list-style-type: none"> • DIN 51517 Part 3 - CLP • ISO 12925-1 category CKD/CKSMP • AGMA 9005-F16 AS • SEB 181226 • JIS K 2219:2006 (Class 2) • Chinese GB 5903 L-CKD • US STEEL 224
Manufacturers' Approvals <p>SEW, ZF, Flender, CMD Gears, Bonfiglioli, Eickhoff, Zöllern</p>
Meets the requirements of <ul style="list-style-type: none"> • Liebherr

<h2>Carter SH*</h2> <h3>ISO VG 68 - 3200</h3> <p>Synthetic oils (PAO) for enclosed gears operating under severe conditions</p>
International Specifications <ul style="list-style-type: none"> • DIN 51517 Part 3 - CLP • ISO 12925-1 category CKD/CKSMP • AGMA 9005-F16 AS • SEB 181226 • JIS K 2219:2006 (Class 2) • Chinese GB 5903 L-CKD and GB/T 33540.3 • US STEEL 224
Manufacturers' Approvals <p>SEW, ZF, Flender, CMD Gears, Bonfiglioli, Eickhoff, Zöllern</p>
Meets the requirements of <ul style="list-style-type: none"> • Liebherr

<h2>Carter SG*</h2> <h3>ISO VG 100 - 1000</h3> <p>Lubrication of gear drives operating under severe conditions: high loads, high temperature peaks and corrosive atmospheres</p>	International Specifications <ul style="list-style-type: none"> • DIN 51517-3 : CLP PG • ISO 12925-1 CTPG • AGMA 9005-F16 AS
	Manufacturers' Approvals <ul style="list-style-type: none"> • CMD Gears

Steering

<h2>Fluidmatic D3</h2> <p>Automatic transmission lubricant also dedicated to hydraulic systems and power steering application.</p>	Manufacturers' Approvals <ul style="list-style-type: none"> • DTFR 13C170 (236.9) • ZF TE-ML 04D/14B/16L/20B/25B • VOITH H55.6336.xx/H55 6335.xx • MAN 339 Type V1/ V2/ Z2/ Z11 • Volvo 97341 • DANA-OHTM-ATF (Approval ID 23C-0004)
	Meets the requirements of <ul style="list-style-type: none"> • GM Dexron IIIG / IIIH • Ford Mercon
	Suitable for <ul style="list-style-type: none"> • Allison C4



<h2>Fluidmatic XLD FE</h2> <p>Extra-long drain automatic transmission fluid.</p>	Manufacturers' Approvals <ul style="list-style-type: none"> • ZF TE-ML 04D/14B/16L/20B/25B • VOITH H55.6336.xx/H55 6335.xx • MAN 339 Type V1/ V2/ Z2/ Z11 • Volvo 97341 • DANA-OHTM-ATF (Approval ID 23C-0004)
	Meets the requirements of <ul style="list-style-type: none"> • DTFR 13C170 (236.9)* • ALLISON C4 TES-228 • FORD Mercon V • GM Dexron IIIG/ IIIH • Mercedes-Benz: MB 236.6 • JASO M315-1A
	Suitable for <ul style="list-style-type: none"> • ZF TE-ML 11B • Nissan: AT-Matic D, J, K

<h2>Fluidmatic DIII MV*</h2> <p>A well-balanced fluid for heavy duties and passenger cars equipped with automatic transmissions</p>	Suitable for <p>GM Dexron IIIG / IIIH, Ford Mercon, ZF TE-ML 14A Allison C4 (TES-228)</p>
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*Please refer to and follow the OEM recommendations.



Grease

Winch

Multis EP 2

Multipurpose Lithium/ Calcium grease.

International Specifications

- ISO 6743-9: L-XBCEB 2
- DIN 51502: KP2K -25

Multis Complex EP 2

Multi-purpose Extreme Pressure, high temperature Lithium Complex grease.

International Specifications

- ISO 6743-9: L-XBEHB 2
- DIN 51502: KP2P -25

Multis Complex HV 2

Multipurpose Extreme Pressure, High viscosity and High temperature Lithium Complex grease.

International Specifications

- ISO 6743-9: L-XBEHB 2
- DIN 51502: KP2P -30

Ceran XM 220 / 460

Extreme pressure, water-resistant, high-temperature "NEW GENERATION" calcium sulfonate complex grease.

International Specifications

- ISO 6743-9: L-XCFIB 1 / 2
- DIN 51 502: KP1 / 2R-30
- DCSEA 360 > A specification related to sea water resistant grease codified NATO G-460

Superstructure Boom & Swing Mecanism

Multis Complex EP 2

Multi-purpose Extreme Pressure, high temperature Lithium Complex grease.

International Specifications

- ISO 6743-9: L-XBEHB 2
- DIN 51502: KP2P -25

Multis Complex HV 2

Multipurpose extreme pressure, high-temperature lithium complex grease.

International Specifications

- ISO 6743-9: L-XBEHB 2
- DIN 51502: KP2P -30

Ceran XM 220 moly

Extreme pressure calcium sulfonate complex grease containing 5% of MoS₂.

International Specifications

- ISO 6743-9: L-XCFIB 1/2
- DIN 51 502: KPF1/2R -20

Wire Rope

Ceran XM 460

Extreme pressure, water-resistant, high-temperature "NEW GENERATION" calcium sulfonate complex grease.

International Specifications

- ISO 6743-9: L-XCFIB 1 / 2
- DIN 51 502: KP1 / 2R-30
- DCSEA 360 > A specification related to sea water resistant grease codified NATO G-460

Ceran AD Plus

Highly adhesive, extreme pressure grease adapted to severe conditions. For metal cables, rails, winches, capstans, open gears and chains. Recommended in cement plants, mines, quarries, offshore.

International Specifications

- ISO 6743-9: L-XBDIB 0
- DIN 51502: OGP 0N-20

Bioadhesive plus

Especially designed for the protection of metallic pieces in presence of water (including sea water)

International Specifications

- ISO 6743-9: L-XEBIA 1
- DIN 51502: ME1E-50

Ceran XM 220 / 460 NLGI 1,5

Extreme pressure, water-resistant, high-temperature "NEW GENERATION" calcium sulfonate complex grease.

International Specifications

- ISO 6743-9: L-XCFIB 1 / 2
- DIN 51 502: KP1 / 2R-30
- DCSEA 360 > A specification related to sea water resistant grease codified NATO G-460

Multis HP 2 Moly NLGI 2

Heavy-duty grease, with an excellent pumpability especially in the most extreme cold conditions, designed to increase the productivity of operations and protect equipment in the most severe conditions.

International Specifications

- ISO 6743-9 L-XCCHB2
- DIN 51502 : KP2K-30

Meets the requirements of

- Liebherr
- Komatsu
- Hitachi
- Volvo

Suitable for

Swing Gear Lubrication and Pin&Bushes

Coolants

Commercial names	International specifications	OEM approvals	OEM meets the requirements of
Coolelf Neotech* -37° / -26°	<ul style="list-style-type: none"> • ASTM D3306-20 • ASTM D6210-17 • GB 27943.1-2022 • UNE 26 361 88/1 • JIS K2234 2018 	<ul style="list-style-type: none"> • VOITH • JAGUAR-LAND ROVER STJLR.03.5212 • CLAAS • DEUTZ DQC CB-14 	<ul style="list-style-type: none"> • VOLVO VCS-2 • RENAULT TRUCKS RTCS-2 • CATERPILLAR GCM34 • PERKINS • KUBOTA • UD TRUCKS • JOHN DEERE POWER SYSTEMS • CASE NEW HOLLAND MAT 3624 • DETROIT DFS93K217 • TATA <p>Suitable for:</p> <ul style="list-style-type: none"> • CASE NEW HOLLAND MAT 3724 • DTFR 29D110 (former MB 326.3) • KOMATSU 07.892 (2017) • CUMMINS CES 14439 • CUMMINS CES 14603 • MAN 324 TYP SNF
Coolelf SI-OAT	<ul style="list-style-type: none"> • AFNOR NFR 15-601 • ASTM D 3306 • ASTM D 4985 • BS 6580 : 2010 • SAE J1034 • CUNA NC 956-16 	<ul style="list-style-type: none"> • DAIMLER / MERCE-DEZ-BENZ: MB 326.6 • DTFR 29D120 (former MB 326.5) • MAN 324 Type SI-OAT 	
Coolelf Plus Evo* -37° / -26°	<ul style="list-style-type: none"> • ASTM D3306-20 • JIS K2234-2018 • FVV R 530:2005 • NF R15-601-20 • BS 6580.2010 • GB 29743-2013 • ONORM V5123 • UNE 26-361-88/1 		<ul style="list-style-type: none"> • MB 326.0 • DTFR 29D120 (former MB 326.5) • DEUTZ DQC CA-14 • MAN 324NF/324 SI-OAT • IVECO 18-1830 • CUMMINS 85T8-2 • MWM • JENBACHER • MTU MTL 5048 • CASE JIC-501 • FORD ESD-M97B49-A

Commercial names	International specifications	OEM approvals	OEM meets the requirements of
Coolelf Auto Supra 2F -37° / -26°	<ul style="list-style-type: none"> • BS 6580 • ASTM D3306-20 • NF R15-601-20 		<p>Suitable for:</p> <ul style="list-style-type: none"> • Bergen Engines 2.13.01 • Cummins CES 14439 • Cummins CES 14603 • DAF 74002 • Daimler DTFR 29D110 (former MB 326.3) • Detroit DFS93K217 • Detroit DFS93K227 • Deutz DQC CB-14 • Fendt • Iveco 18-1830 • Leyland Trucks DW03245403 • MAN 324 Typ SNF • MAN B&W D36 5600 • MAN Energy Solutions Antifreeze agents • WÄRTSILÄ SACM Diesel DLP799861 • ISUZU

*As it is a new product, OEM approvals are in progress

Brake Fluid

TotalEnergies Brake Fluid DOT 3

Synthetic Fluid for Brake Systems

International Specifications

ISO : ISO 4925 CLASS 3
 FMVSS : FMVSS 116 DOT 3

TotalEnergies Brake Fluid DOT 4

Synthetic Fluid for Brake Systems

International Specifications

ISO : ISO 4925 CLASS 4
 SAE : SAE J1704
 FMVSS : FMVSS 116 DOT 4



TotalEnergies Cost of Ownership: Our Partners, Our Planet, Our Promise

We are driven to fulfil both our environmental commitment and our promise to partners to deliver the most performance- and cost-efficient lubricants. TotalEnergies products help you keep your competitive edge through efficiency and improved equipment service life.

When you work with TotalEnergies, experience a reduction in the number of oil changes, downtime and expensive repairs, and keep equipment working at peak efficiency for longer. Our research team in Lyon has conducted several in-house oxidation tests to develop robust lubricants that withstand harsh mining environments without compromising lubricant and machine performance.

For instance, Rubia Works products lower downtime and improve service lengths. With proper use and application of the LubAnac oil condition monitoring service, drain intervals can go up to an astonishing 2000 working hours. TotalEnergies Cost of Ownership:

Our Partners, Our Planet, Our Promise for certain applications. We have over 2000 different types and pack sizes of lubricants for an expansive range of needs, from reducing energy and fuel consumption, to prolonging oil life, to extending machine life while reducing maintenance cost. Our experts will assess your needs thoroughly to find the most suitable lubricant for you to reach maximum productivity.

As a major global player in the oil industry, TotalEnergies has a duty in keeping our earth green. To us, health, safety and environmental issues are paramount. Our team of experts is constantly working towards developing the best range of biodegradable lubricants and eco-friendly products. We also help our partners to reduce Total Cost of Ownership (TCO) by introducing energy efficient and fuel-saving lubricants, implementing new lubrication procedures, and changing storage infrastructure and logistics.

Biodegradable Products



Biotraffic 5000 FE 10W-30

Very high-performance synthetic "Low SAPS" biodegradable lubricant, made from renewable raw material, for all engine types to provide substantial Fuel Economy.

International Specifications

- ACEA E4, E6, E7, E8, E9, E11
- API CK-4/ CJ-4/ CI-4 PLUS/ CI-4/ CH -4

Suitable for

- DEUTZ DQC IV-18 LA
- DEUTZ TTCD 7.8 / 6.1 L6
- MTU Category 3.1
- MAN M 3477 / M 3677 / M 3775
- DTFR 15C120 (228.52)
- DTFR 15C110 (228.51)
- DTFR 15C100 (228.31)
- VOLVO VDS-4.5
- MACK EO-O Premium Plus
- RENAULT VI RLD-3
- CATERPILLAR ECF 3 / ECF 2 / ECF 1a
- SCANIA LDF-4
- LIEBHERR LH 01 ENG LA
- CUMMINS CES 20086
- IVECO TLS E6
- DAF
- JASO DH-2
- CNH MAT 3571/ 3521
- KOMATSU
- ISUZU
- KUBOTA
- MITSUBISHI
- FPT-Iveco
- SISU
- VALMET
- PERKINS
- FORD
- etc.



Biohydran SE 46 / 68

High performance product based on saturated synthetic esters, designed for demanding hydraulic systems requiring high thermal stability & good lubricating properties.

Registration number:
FR / 27 / 02 AFNOR CERTIFICATION.

International Specifications

- ISO 15380: HEES
- DIN 51524 (for mineral oils) : except DIN 51587 and ISO 13357.

Manufacturers' Approvals

- DENISON : HF0, HF1, HF2 & HF6 approved.

Meets the requirements of

- Swedish Standard SS 15 54 34
- JCMA HKB (VG 32 & VG 46)



Biohydran TMP 46 / 68

Bio-hydraulic fluid designed for demanding hydraulic systems requiring re-enforced anti-wear properties.

Registration number:
FR / 27 / 02 AFNOR CERTIFICATION.

International Specifications

- ISO 15380: HEES

Meets the requirements of

- Swedish Standard SS 15 54 34
- Specification CAT BF-2



Biomultis EP2

High-performance extreme pressure biodegradable lithium grease.

International Specifications

- Environmentally Acceptable Lubricant (EAL) for the 2013 Vessel General Permit (VGP)
- ISO 6743-9: L-XCEEB 2
- DIN 51502: KP2K-30



Biotrans FX

Very high quality biodegradable lubricant for transmissions equipped with wet disc brakes for agricultural machinery and Public Works equipment.

International Specifications

- API GL-4
- ISO 15380 HEES

Manufacturer Approvals

- MF: CMS M1145 / M1143
- ZF TE-ML 06P

Meets the requirements of

- CLAAS / RENAULT AGRICULTURE

Suitable for

- JCB
- VOLVO
- KOMATSU
- CASE
- FENDT
- FORD
- MAC-CORMICK
- MASSEY-FERGUSON
- JOHN DEERE



Biotrans LS FE 75W-90

Very high-performance synthetic, renewable, biodegradable lubricant, dedicated to final reductions and disc-limited slip differential axles.

International Specifications

- API GL-5 (LS)

Suitable for

- LIEBHERR
- VOLVO CE
- TEREX
- CASE NEW HOLLAND
- JCB
- CLAAS-RENAULT
- STEYR
- DEUTZ
- SAME
- VALTRA etc.

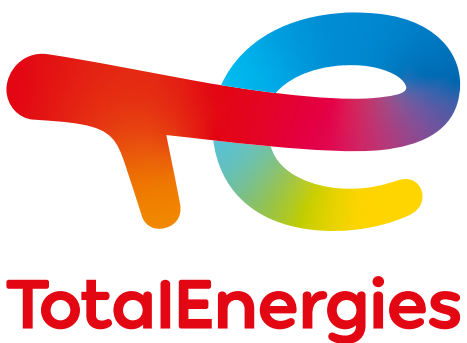


Isovoltine Bio

Biodegradable insulating oil.

- IEC 61099 • IEC 61039 - K3 class
- Biodegradable according to OECD 301B
- NWG (Nicht Wasser Gefarhende - without danger for water)





TotalEnergies Lubrifiants

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FRANCE

Cranes Range
Brochure – 2024/03



lubricants.totalenergies.com



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Safety Data Sheets are available at ms-sds.totalenergies.com