



**TOTAL**

COMMITTED TO BETTER ENERGY



Are you really getting the best advice on  
minimising wear under extreme conditions?



Are you really getting expert knowledge on  
changes to emissions &  
increasing reliability?



If not...  
**Talk to the TOTAL Experts!**

# OFF-ROAD: MINING, CIVIL & QUARRY

Energizing performance. Every day



**TOTAL**  
LUBRICANTS



## RUBIA WORKS 1000 15W40 (ENGINE OIL JASO DH-1)

Especially suitable for engines used in earthmoving activities (quarries, construction and mining) and withstands very long working periods under severe conditions and high load, with dust and heat.

- Recommended for recent technology engines that meet European standard Stage IIIA and American standard EPA Tier 3 as well as previous standards and is particularly suitable for American, European and Japanese engines.
- Excellent thermal stability ensuring efficient lubrication of hot engine pieces during severe and long working periods.
- Detergent, dispersant and anti-wear additives help to reach long oil drain interval (by resisting against dust, soot, water, diesel, acid coming from the combustion).
- Reinforced viscosity at 100°C, so that the product is able to provide high oil pressure and to resist to the fuel dilution caused by long idling periods or by the use of Biodiesel (up to B30).
- Its low Pour Point allows for engine starting with very low temperature.

### INTERNATIONAL STANDARDS

ACEA E7/E5  
API CI-4/CH-4/CF/SL  
JASO DH-1

### MANUFACTURER CERTIFICATIONS

CUMMINS CES 20078/20077/20076  
DEUTZ DQC III-10  
MTU Category 2  
VOLVO VDS-3  
MACK EO-N  
MAN M 3275-1  
MB-Approval 228.3  
RENAULT RLD-2  
ISUZU Orop List 2015

### MEETS REQUIREMENTS

CATERPILLAR ECF-2 / ECF-1a



## TOTAL AZOLLA ZS 32, 46, 68, 100, 150 (HYDRAULIC OIL)

Very high performance anti-wear hydraulic oils.

Designed for use in all kinds of hydraulic systems running under the most difficult conditions, including booms, hoists, buckets as well as hydrostatic mobile hydraulic transmissions.

- Suitable for use in many applications where a universal high performance anti-wear lubricant is required
- High protection against wear ensuring maximum equipment life
- Superior thermal stability avoiding formation of sludge even at high temperature
- Very good oxidation stability ensuring a long service life of the fluid
- Remarkable filterability even in the presence of water

### INTERNATIONAL STANDARDS

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

### MANUFACTURER CERTIFICATIONS

CINCINNATI MILACRON P68, P69, P70  
VICKERS M-2950S, -I-286  
DENISON HF0, HF1, HF2 (T6H20C)



## TOTAL DYNATRANS AC 10W / 30 / 50 / 60 (OFFROAD DRIVELINE OIL)

Lubricants for hydraulic systems and transmission components (axles or transmissions) equipped with specific friction requirements.

Suitable in hydraulic system, powershift gearbox, axle and final drives for which the manufacturer recommends a fluid meeting one of the below mentioned specifications.

- For CATERPILLAR equipment and between -10°C and +40°C
- Excellent anti-wear and anti-corrosion properties
- Good performance with respect to seals
- Friction properties adapted to the types of equipment referenced

### MANUFACTURER CERTIFICATIONS

ALLISON C4 (SAE 10W and SAE 30)

### MEETS REQUIREMENTS

CATERPILLAR TO-4  
KOMATSU KES 07-868-1  
KOMATSU Micro-Clutch

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