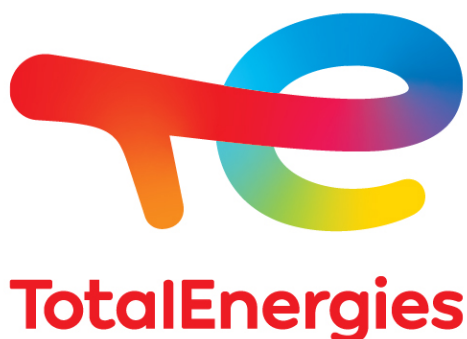




Dynatrans ACX Range

Dedicated lubricant range for
 **Powershift Transmissions,
 Hydraulic Systems & Final
 Drives** for off-highway
equipment & fleets



Dynatrans ACX Range

Dynatrans ACX is a range of lubricants for off-highway machinery, designed to extend the machine life and oil drain intervals. The products are formulated with selected base oils associated to a robust chemistry. They provide to the end user a better oxidation resistance at high temperature together with a draining interval extension and extra protection to the machinery parts.

Customer Benefits Dynatrans ACX 10W, 30, 50 and 60

Dynatrans ACX 10W and 30 should be used in replacement of CATERPILLAR HYDO Advanced 10, 20 and 30 with a long drain interval up to 3,000 working hours and can be extended to 6,000 working hours within regular oil analysis. Oil analysis is recommended every 500 working hours during the extended drain interval.

- Excellent anti-wear and anti-corrosion properties, increasing the durability of the lubricated components
- Optimum performance with respect to elastomers, without aggressiveness to the hydraulic hoses, seals and gaskets
- Friction properties adapted to the types of CATERPILLAR, KOMATSU and other machinery friction materials
- Very shear-stable viscosities preserving the hydraulic pump's volumetric efficiency
- Emulsifying, they fully keep condensation water in emulsion and avoid pump breakage in winter or rapid degradation in summer

Performance & Approvals

| Manufacturers | Dynatrans ACX | | | | |
|-----------------------------------|---------------|---------|--------|--------|--------|
| | SAE 0W-20 | SAE 10W | SAE 30 | SAE 50 | SAE 60 |
| CATERPILLAR TO-4 | ✓ | ✓ | ✓ | ✓ | ✓ |
| CATERPILLAR HYDO Advanced | ✓ | ✓ | ✓ | | |
| ALLISON C4 | ✓ | ✓ | ✓ | | |
| ALLISON TES 439 | ✓ | ✓ | ✓ | | |
| KOMATSU Micro Clutch Test (JCMAS) | ✓ | ✓ | ✓ | ✓ | ✓ |
| ZF TE ML 03 C | | ✓ | ✓ | | |
| ZF TE ML 07 F | | | ✓ | | |

Dynatrans ACX 0W-20, 10W, 30, 50 are also suitable for transmission systems like DANA, EATON-FULLER, ROCKWELL, etc.

Viscosity Selection Chart Based on Ambient Temperature

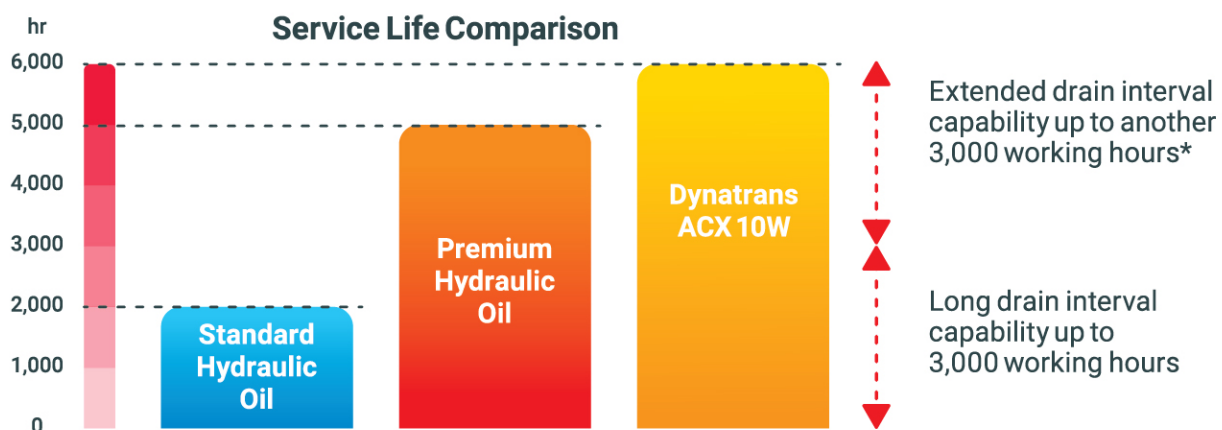
| Dynatrans ACX | LUBRICATED COMPARTMENTS | | |
|---------------|-------------------------|-------------------------|----------------------------|
| | Hydraulic System | Powershift Transmission | Differential & Final Drive |
| SAE 0W-20 | -40°C to 40°C | -40°C to 10°C | -40°C to -10°C |
| SAE 10W | -20°C to 40°C | -20°C to 10°C | -25°C to 0°C |
| SAE 30 | 0°C to 50°C | 0°C to 50°C | -20°C to 15°C |
| SAE 50 | NA | NA | -15°C to 40°C |
| SAE 60* | NA | NA | 0°C to 50°C |

The above table is given as a guide only. Always refer to manual and follow OEM recommendations. Refer to CATERPILLAR publication SEBU6250 for specific lubrication instructions for CATERPILLAR equipment.

* In case of no friction materials in the differentials/final drive, Dynatrans FD-1 SAE 60 should be used, as recommended by CATERPILLAR.

Dynatrans ACX 10W

Dynatrans ACX 10W can also be used in hydraulic applications not requiring CAT TO-4 friction characteristics.



* Capability of Dynatrans ACX 10W up to 6,000 working hours, subject to oil condition monitoring program (LubAnac)



Dynatrans ACX 30

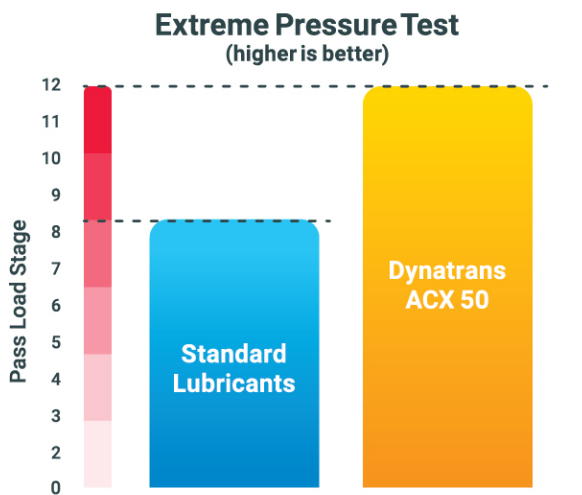
Dynatrans ACX 30 has been subjected to severe testing methods, and it has proven to maintain correct friction performance even when operating at elevated temperatures and during extensive cyclic clutch engagement durability testing.

| Severe Friction Durability Performance (Modified Clutch Friction Testing) | | | | | |
|---------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------|--------------------------------------------------|
| Lubricant | Standard CAT T0-4 Friction Performance | High Temperature Friction Retention Performance (Temperature Range: 40°C to 140°C) | | Extended Friction Retention Durability Performance | Friction Disc and Reaction Plate Wear Resistance |
| | | Fresh Oil | Aged Oil (192 h @ 150°C) | | |
| Standard Lubricant A | | | | | |
| Standard Lubricant B | | | | | |
| Dynatrans ACX 30 | | | | | |

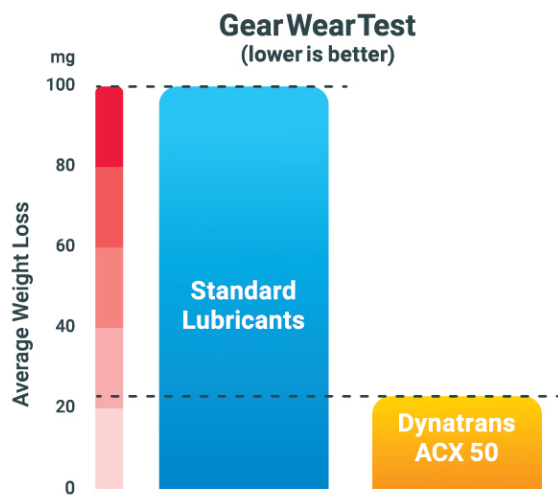
: Optimal

Dynatrans ACX 50

FZG gear tests were developed for different types of gear failure simulation. For the different gear failure modes which can be influenced by the lubricant – different test methods were developed.



Superb anti-scuffing properties of Dynatrans ACX 50 in comparison with the reference oil



Dynatrans ACX 50 provides excellent gear wear protection

LubAnac
off road

LubAnac off road has been specially developed to track & monitor lubricant performance of off-road equipment & fleets. The measured parameters and the new advanced interpretation rules allow a more relevant and personalized diagnosis for each equipment. For more information please visit <https://www.lubricants.totalenergies.com/business/oil-diagnosis-anac/anac-oil-diagnosis>