



Shell Donax TC

High Performance Off-Highway transmission oil

Shell Donax TC Oils are designed to provide operators with trouble free operation and maximum reliability for the lifetime of the equipment. Donax TC meets the demanding requirements of modern transmission, final drive, oil immersed brake and hydraulic systems fitted to heavy-duty off-highway.

Applications

Donax TC oils are recommended for use heavy duty off-highway equipment produced by the world's leading manufactures including; Caterpillar, Komatsu, Komatsu-Dresser and in transmissions manufactured by Eaton, Eaton Fuller, ZF, Dana, Rockwell amongst other:

- Powershift Transmissions
- Final drives
- Oil immersed brakes
- Hydraulic systems

Performance Features and Benefits

- **Frictional performance and material compatibility**
Highly consistent and reliable friction performance when used with the advanced metallic and non-metallic materials found in modern systems. Minimal clutch slippage, smooth and quiet brake operation, and trouble-free transmission operation.
- **Anti-wear protection**
The shear-stable SAE 10W, 30 and 50 viscosity grades are free from viscosity index (VI) improvers and thickeners and give the best protection of heavily loaded components.
- **Low temperature characteristics**
Formulated to meet low temperature viscosity and fluidity requirements, providing superior protection during start-up and low operating temperature conditions.
- **Optimum mechanical performance and long oil life**
Wide-ranging protection for critical components, such as bronze friction discs in powershift transmissions and gears in final drives and differential units.
- **Vickers 35V25 hydraulic pump test**
Excellent performance in this demanding test.

- **Oxidation stability**

Contains inhibitors to control oxidation and deposit formation. Protects both ferrous and non-ferrous metals from corrosion. Suppresses foaming with improved flow properties at low temperatures enhances efficiency.

Specification and Approvals

Donax TC Oils are suitable for use where the following specifications are called for:

Caterpillar Tractor - TO-4
Komatsu - KES 07.868.1£
ZF - TE-ML 03C#, 07F@

Suitable for use in applications where Allison C-4 type fluids are required#

£ SAE 10W, 30 and 50 only
SAE 10W and 30 only
@ SAE 30 only

Advice

Advice on applications not covered in this leaflet may be obtained from your Shell Representative.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet that can be obtained from your Shell representative.

Storage Requirements

Store at ambient temperatures and periods of exposure to temperatures above 35°C

Protect the environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water



Technical Data Sheet

Typical Physical Characteristics

Donax TC		10W	30	40	50	60
SAE Viscosity grade	SAE J 306	10W	30	40	50	60
Kinematic Viscosity	ISO 3104					
at 40°C	mm ² /s	36.0	93.9	145.0	217.4	295.7
at 100°C	mm ² /s	6.0	10.9	14.5	19.0	23.4
Density at 15°C	kg/m ³	884	899	902	910	912
Flash Point COC	°C	200	205	205	205	215
Pour Point	°C	-36	-30	-24	-18	-6

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.