

Technical Data Sheet

CASTROL TFC RANGE

DESCRIPTION / APPLICATION:

- Castrol TFC 410 is a mineral based SAE 10 oil containing no viscosity improving additives and is used in
 hydraulic systems under arduous conditions in temperatures of between -25°C and +40°C. The product has
 been specifically formulated to satisfy the requirements of Allison C4 (SAE 10), Caterpillar TO-4 and
 Komatsu Micro Clutch, API Service Classification GL-3 / CF.
- Castrol TFC 430 is a mineral based SAE 30 monograde transmission oil containing no viscosity improving additives and is recommended for use in automatic, powershift or manual transmissions and gearboxes operating under the most arduous conditions in ambient temperatures of between -11°C and +40°C. Castrol TFC 430 has been specifically formulated to satisfy the requirements of Allison C4 (SAE 30), Caterpillar TO-4 and Komatsu Micro Clutch, API Service Classification GL-3 / CF.
- Castrol TFC 450 is a mineral based SAE 50 monograde final drive oil containing no viscosity improving
 additives and is recommended for use in winches, final drives, differentials and gearboxes operating under
 the most arduous conditions in ambient temperatures of between 0°C and +50°C. Castrol TFC 450 has been
 specifically formulated to satisfy the requirements of Allison C4, Caterpillar TO-4 and Komatsu Micro Clutch,
 API Service Classification GL-3 / CF.
- Castrol TFC 460, based on SAE 60 viscosity and fortified film strength, is particularly suitable for severe operating conditions such as those encountered in Africa. The product's greater margin of protection results from improved control of gear pitting and stress problems, which are associated with high loads and oil temperatures. Ambient operating temperature range is between 0°C and +50°C. The product satisfies API Service Classification GL-3 / CF.

BENEFITS:

- Higher film strength than conventional TO-4 type lubricants.
- Extended life of frictional plates.
- Providing maximum transmission and final drive at high temperatures and heavy-duty cycles.
- Maintaining high temperature performance and transmission cleanliness during service life due to excellent oxidation stability provided.

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- Ensures smooth gear changes with enhanced friction material durability on numerous frictional material combinations.
- Power steering pump wear protection resulting in longer pump life.
- Enhanced rust and corrosion prevention.
- Extended thrust and plain bearing life due to good copper corrosion protection.
- Maintains oil seal life due to compatibility with the major types of elastomers in use.
- Excellent anti-wear, anti-rust and anti-corrosion additives.
- Excellent oxidation stability.

TYPICAL CHARACTERISTICS:

Castrol TFC	410	430	450	460
Product Code	12665	12690	12686	12660
Density @ 15°C (kg/l)	0.884	0.896	0.9	0.913
Viscosity @ 40°C (mm²/s)	20	96	70	345.8
Viscosity @ 100°C (mm²/s)	6.5	11.0	18.0	23.32
SAE	10	30	50	60
API Service Classification	GL-3 / CF	GL-3 / CF	GL-3 /CF	GL-3 / CF
Pour Point (°C)	-25 max	-25 max	-15 max	-21 max
Flash Point - COC (°C)	200	225	230	240
Base	Mineral	Mineral	Mineral	Mineral

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