



Syntrans Heavy Duty 75W-90

Synthetic Manual Transmission Fluid

Description

Castrol Syntrans Heavy Duty 75W-90 is a fully synthetic manual transmission lubricant developed for use in synchronised or non-synchronised transmissions. It is particularly recommended in long haul transport, B-double, road train and other severe duty applications. Castrol Syntrans Heavy Duty 75W-90 is approved against the Volvo Transmission 97315 and 97319 specifications for extended drain use in severe duty, Volvo manufactured manual and automated manual (i-Shift) transmissions.

Application

Castrol Syntrans Heavy Duty 75W-90 has proven to give excellent performance for up to 400,000 km oil drain intervals in manual transmission applications. It is our prime recommendation for Volvo, Eaton Roadranger®, Spicer and Meritor truck transmissions in both normal and severe duty conditions where SAE 50 lubricants are required. It may also be used in manual transmissions of passenger cars or light commercial vehicles where API GL-4 oils are recommended.

For ZF transmissions, our prime recommendation is Castrol Syntrans Z Long Life 75W-80.

Advantages

- Excellent oxidation stability ensures suitability in high temperature and extended drain applications.
- Proven synchroniser performance makes easier gear changes, transmission operation quieter and reduces driver fatigue.
- Excellent low temperature fluidity ensures easy cold start gear shifting.
- Excellent viscosity temperature characteristics help retain effective viscosity over all ambient working temperature ranges
- Excellent wear protection reduces wear and prolongs gear life.
- Excellent seal compatibility with normal mineral oil seals means standard seals can be retained and long seal life expected
- Compatible with normal mineral oil. No special flushing procedure needed when changing from mineral to synthetic oil
- Long drain performance offers the potential to lower maintenance costs and increase vehicle availability.

Characteristics

Field experience with Castrol Syntrans Heavy Duty 75W-90 in Australia has demonstrated excellent performance in Volvo manual transmissions. Long haul operating conditions in Australia differ from most overseas operations. There are a higher proportion of engines above 450hp (335kW) operating on longer point-to-point routes, at higher speeds, as well as over rough roads. These conditions increase the stress on the drive train and the lubricant.

Castrol Syntrans Heavy Duty 75W-90 has demonstrated excellent gear set and bearing durability in field evaluation in Australia. In trials covering more than two million kilometres in Australia to obtain the Volvo approval, significant benefits in wear protection compared with typical competitor products were demonstrated. This along with excellent oxidation control resulted in the transmission being in excellent condition even after double the normal drain period.

Typical Characteristics

Name	Method	Units	Syntrans Heavy Duty 75W-90
Appearance	Visual	-	Clear & Bright
Density @ 15C, Relative	ASTM D4052	g/ml	0.854
Viscosity, Kinematic 40C	ASTM D445	mm ² /s	132
Viscosity, Kinematic 100C	ASTM D445	mm ² /s	18.3
Viscosity Index	ASTM D2270	None	156
Pour Point	ASTM D97	°C	-54
Viscosity, Brookfield @ -40C	ASTM D2983	mPa.s (cP)	79000
Flash Point, COC	ASTM D92	°C	256

Product Performance Claims

API GL-4

Volvo Transmission Oil 97315:002

Volvo Transmission Oil 97319:007

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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