

Star Trans HT 85W-140

Star Concept

KEY DATA



Very high performance lubricant, specially developed for the lubrication of axles and final reduction boxes of machinery used in Earthmoving, Construction, Mining or Quarries, in hot climate areas.

INTERNATIONAL STANDARDS

- 🔥 API GL-4/GL-5 (LS)/MT-1

SUITABLE FOR

- 🔥 LIEBHERR HYPOÏD 85W-140 / GEAR BASIC 90LS
- 🔥 JCB GEAR OIL EP 85W-140 / GEAR HP LS ...

MEETS THE REQUIREMENTS OF

- 🔥 CATERPILLAR FD-1 (SAE 60),
- 🔥 CATERPILLAR TO-4 (SAE 60),
- 🔥 KOMATSU Micro-clutch
- 🔥 ZF TE-ML 05C

APPLICATIONS

Star Trans HT 85W-140 can be used to lubricate highly hypoid front or rear axles, as well as the final reductions of transmission components, used in very severe operating conditions.

Star Trans HT 85W-140 has friction characteristics adapted to the applications in CATERPILLAR axles which require a TO-4 product.

Similarly, Star Trans HT 85W-140 can also be used in the axles and final drives of CATERPILLAR equipment that are not equipped with friction discs and require an FD-1 product.

Finally, Star Trans HT 85W-140 can be used in axles equipped with a self-locking differential with limited slip discs (LIEBHERR, JCB, TEREX...). In some severe cases, Star Trans HT 85W-140 must be used with Star XL additive (Consult our Technical Services).

Star Trans HT 85W-140 can also be used in manual gearboxes, synchronized or not, provided that the manufacturer recommends the viscosity grade SAE 140 (J306) or SAE 60 (J300).

Star Trans HT 85W-140 is particularly recommended for machines operating in hot climates or with high temperature rises due to severe use.

PERFORMANCES & CUSTOMER BENEFITS

- 💧 Allows for a significant reduction in the number of lubricants required to maintain an equipment fleet.
- 💧 Meets the performance levels required by equipment manufacturers for severe construction site applications.
- 💧 Eliminates the possibility of misapplication of lubricant, in complete safety.
- 💧 Its enhanced "Extreme-Pressure" properties (GL-5) provide excellent load and impact resistance and extend the life of axles and final drives.
- 💧 In addition, its high viscosity base oils provide a thicker oil film between moving parts.

CHARACTERISTICS*

TEST	UNIT	TEST METHOD	RESULT
Kinematic viscosity at 40°C	mm ² /s	ASTM D445	320
Kinematic viscosity at 100°C	mm ² /s	ASTM D445	24.5
Viscosity index	-	ASTM D2270	98
Pour point	°C	ASTM D97	-21
Phosphorous minimum value	ppm	-	2000

* The characteristics given above are obtained with a standard tolerance threshold during production and may not be considered specifications.

RECOMMENDATIONS FOR USE

Before using the product, the vehicle's maintenance guide should be checked. Oil changes should be carried out in accordance with the manufacturer's recommendations.

The product should not be stored at temperatures over 60°C. It should be kept away from sunlight, intense cold and extreme temperature fluctuations. If possible, the packaging should not be exposed to the elements. Otherwise, the drums should be laid horizontally in order to avoid any contamination from water and to prevent the product's label from rubbing off.

HEALTH, SAFETY AND THE ENVIRONMENT

Based on the toxicological information available, this product should not cause any adverse health effects, provided it is used for its intended purpose and in accordance with the recommendations laid out in the Safety Data Sheet (SDS).

This can be obtained on request from your local reseller and is available for consultation at <https://ms-sds.totalenergies.com>.

This product should not be used for any purposes other than the ones for which it is intended.



TotalEnergies Lubricants / Last update of this datasheet: March 24 / Star Trans HT 85W-140

Some variations can be expected under normal production conditions, but these should not affect the product's expected performance irrespective of the site. The information contained in this document is subject to change without notice. Our products can be viewed on our website at www.lubricants.totalenergies.com.