

Carter WT 320

Full synthetic gear oil (PAO) for wind turbine

APPLICATIONS

Wind turbines gearboxes.

Carter WT 320 is a long-life lubricant formulated to deliver ultimate protection of wind turbine gearboxes and increase oil drain intervals up to 10 years in standard operating conditions.

Carter WT 320 is suitable for all drive technologies used in offshore and onshore wind turbines regardless of their power ratings. The PAO synthetic formulation ensures continued lubrication at low temperature in the most difficult environments.

ADVANTAGES

Carter WT 320 has proven functional for more than ten years while demonstrating:

- Superior oxidation resistance over time and low-ageing capability
- Superior protection of gears against micro pitting and corrosion
- Excellent extreme pressure performance
- Reduced friction coefficient contributing to increased power generation
- Neutral behavior towards seals, internal coatings, and cuprous metals
- High stability in the presence of water
- Excellent filterability
- Resistance to very high temperature without deposits forming
- Naturally high viscosity index providing viscosity stability over time
- Extremely low pour point enabling operations at very low temperature.

SPECIFICATIONS

DIN 51517 Part 3 – CLP

ISO 12925-1 category CKD, CKSMP

AGMA 9005-F16 AS

IEC 61400-4

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.
A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial advisor or downloaded at ms-sds.totalenergies.com

TYPICAL CHARACTERISTICS

Properties	Units	Standards	Carter WT 320
Density at 15 °C	kg/m ³	ISO 3675	861
Viscosity at 40°C	mm ² /s	ISO 3104	320
Viscosity at 100°C	mm ² /s	ISO 3104	35
Viscosity index	-	ISO 2909	155
Open cup Flash Point	°C	ISO 2592	233
Pour point	°C	ISO 3016	-42
Foaming seq I, II III	mL/mL	ASTM D 892	0/0
Rust protection, sea water (24 hrs)	-	ASTM D 665B	Pass
Copper corrosion	-	ASTM D 130	Pass
FZG micro pitting	Fail Stage	FVA 54 (I-IV)	> 10 high
FZG scuffing:			>14
- Standard test, A/8,3/90	Fail stage	DIN 51354/2	
- Double speed A/16,6/90			>14

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.

A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial advisor or downloaded at ms-sds.totalenergies.com