



AGT-STD

High Performance Synthetic Aero-derivative Turbine Oil

Description

Castrol AGT-STD is a lubricating oil with a viscosity of 5 cSt at 100°C. It is based on high thermal stable neopentyl polyol esters, fortified with carefully selected anti-oxidant, anti-wear and anti-corrosion additives.

Application

Castrol AGT-STD is designed for use on ground gas turbines (aero-derivative) including marine and off-shore installations.

Approval Status

Meets requirements for use on the following stationary industrial gas turbines:

- General Electric all models (LM 2500, LM 6000, LMS 100)
- Rolls-Royce / Allison / Siemens Avon, RB211, Allison 501K, Olympus, Tyne, Spey
- Meets requirements of SAE AS 5780SPC

Aero-derivative gas turbines requiring a MIL-PRF-23699 G Class STD lubricant

Advantages

When compared with other oils within the MIL-PRF-23699 G Class STD, Castrol AGT-STD:

- features a much lower volatility at high temperature
- has a higher flash point than oils from competition
- possesses excellent resistance to coking

Additional Information

When switching from one oil brand to another brand within the same specification (within the MILPRF-23699 family), the "top off" procedure is preferred. Experience has shown a gradual transition is preferred to avoid carbon shedding for elastomer seals in the lubrication circuit. For more details on compatibility, please contact your Castrol representative.

Typical Characteristics

Name	Method	Units	AGT-STD
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	5.03
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	25..01
Kinematic Viscosity @ -40°C / -40°F	ISO 3104 / ASTM D445	mm ² /s	9171
Density @ 20°C / 68°F	ISO 12185 / ASTM D4052	kg/m ³	993
Viscosity stability, 72h at -40°C / -40°F, % change	FED-STD-791- 3458	%	1
Evaporation loss, 6h30mins at 204°C/ 399°F	ASTM D972	%w	3.4
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	269/516
Pour Point	ISO 3016 / ASTM D97	°C/°F	-57/-71
Acid Number	SAE-ARP-5088	mg KOH/g	0.2
Sediments, filtered through 1.2 micron	FED-STD-791-3010	mg/dm ³	0.3
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml / ml	9/0
Foam Sequence II - tendency / stability	ISO 6247 / ASTM D892	ml / ml	5/0
Foam Sequence III - tendency / stability	ISO 6247 / ASTM D892	ml / ml	7/0
Thermal stability and corrosivity, 96h at 274°C			
Viscosity change at 40°C	FED-STD-791-3411	%	1.1
Acid number change	FED-STD-791-3411	mg KOH/g	1.3
Steel weight change	FED-STD-791-3411	mg/cm ²	0.1
Corrosion and oxidative stability 72 h at 204°C			
Viscosity change at 40°C	FED-STD-791-5308	%	16
Acid number change	FED-STD-791-5308	mg KOH/g	1.2
Sludge content through 10 micron	FED-STD-791-5308	mg/100 cm ³	0.0
HLPS Dynamic coking at 375°C Deposit after 20 h	SAE-ARP-5996	mg	0.6
Electrical conductivity, at 20°C	ASTM D 2624	µS/m	1500
Particle Count	NAS 1638	Rating	5

Subject to usual manufacturing tolerances.

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