Technical Data Sheet
Revision Date: 19.08.2020

PETRONAS JENTERAM SYN JT

Premium Performance Gas Turbine Engine Oil

PETRONAS Jenteram SYN JT is a premium performance gas engine turbine oil specially developed for use in gas turbine engines in commercial and military aircrafts and helicopters as well as in aero-derivative gas turbines.
Formulated with polyol esters base oils enhanced with advanced anti-wear, anti-oxidant, anti-rust additives, PETRONAS Jenteram SYN JT oil provides excellent resistance to oxidation, thermal stability and high electrical conductivity.

PETRONAS Jenteram SYN JT meets or exceeds key industrial specifications and OEM requirements.

Applications

PETRONAS Jenteram SYN JT is recommended for use in:

- Commercial, and military aircrafts, and helicopters, recommended in hot engines
- accessories (APU, IDG, starter)
- main helicopter gearbox
- aero-derivative gas turbines: recommended for Rolls-Royce 501K-B7, 501K-B7S and 501K-B7C

Features and Benefits

Features	Benefits
High anti-wear protection	Protects equipment components from excessive wear and provides longer equipment life
Excellent thermal and oxidation stability	Maintains performance levels under high temperatures and pressure, enabling long oil drain intervals
Excellent rust & corrosion protection	Inhibits the corrosion process that occurs in presence of water, improving equipment life
High foam stability	Protects the system from air degenerative effects reducing maintenance costs
Excellent non-coking performance	Low tendency of sludge formation

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Typical Properties

Characteristic	Method	Specification	SYN JT
Specific Gravity @20°C	ASTM D 4052	Report	0,994
Kinematic Viscosity at 40°C, cSt	ASTM D 445	Min. 23,0	24,6
Kinematic Viscosity at 100°C, cSt	ASTM D 445	4,90 – 5,40	4,98
Kinematic Viscosity at -40°C, cSt	ASTM D 445	Max. 13.000	9.000
Viscosity Index	ASTM D 2270	Report	131
Viscosity Stability, 72h at -40°C, % change	FED-STD-791-3458	±6	0,6
Shear Stability, % of Viscosity Loss	ASTM D 2603	Max. 4	-0,08
Flash Point, °C	ASTM D 92	Min. 246	264
Pour Point, °C	ASTM D 97	Max. -54	-60
Acid Number, mgKOH/g	SAE-ARP-5088	Max. 1,00	0,22
Evaporation Loss, 6h 30 at 204°C, %w	ASTM D 972	Max. 10,0	3,1
AMS 3217/4 Rubber Swell, 72h at 204°C, %	FED-STD-791-3604	5 - 25	18,2
Thermal Stability and corrosivity, 96h at 274°C	FED-STD-791-3411		
Viscosity change at 40°C, %		±5,00	0,04
Acid Number Change, mgKOH/g		Max. 6,00	0,40
Steel Weight Change, mg/cm^2		±4,00	0,02
Foam Sequence I, mL	ASTM D 892	Max. 25/0	5/0
Foam Sequence II, mL		Max. 25/0	5/0
Foam Sequence III, mL		Max. 25/0	5/0
HLPS Dynamic Coking at 375°C	SAE-ARP-5996		
Deposit After 20h, mg		Max. 0,4	0,15
Deposit After 40h, mg		Max. 0,6	0,24
Electrical Conductivity at 20°C, pS/m	ASTM D 2624	Report	1500

All technical data are provided for reference only and all specification based on SAE AS 5780 HPC / SS is available upon request including quality control limits

Performance Levels

- MIL-PRF-23699 G Class HTS
- SAE AS5780 Class HPC
- SIEMENS SGT-A05 AE (former Rolls Royce 501-KB5 & 501-KB7)

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Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water.

For further detail regarding storage, safe handling, and disposal of product, please refer to product SDS or contact us at: www.pli-petronas.com.

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