PETRONAS LUBRICANTS

Jenteram HC Extra Extended Service Life Premium Quality Turbine Oil

Intro

PETRONAS Jenteram HC Extra is an extended service life anti-wear type turbine oil specially developed to completely satisfy the severe lubrication requirements of steam, hydroelectric and frame type gas turbines couple with gearing system.

They are manufactured with highly-refined unconventional base oils and specially selected high performance additives to provide good viscosity/temperature characteristics, rapid air release, good water separation, excellent oxidation stability and excellent rust and corrosion resistance.

Applications

Recommended for use in all steam, hydroelectric and frame type gas turbines requiring non-antiwear types turbine oils. Also suitable for use in speed reducers, air compressors, vacuum and deep well pump, electric motors, lightly loaded plain bearings and other equipment requiring turbine oil quality.

Customer Benefits

- Excellent anti-wear properties
- Superior oxidation control and thermal stability longer life, deposits free
- Extended oil service life and reduced operating and maintenance cost
- Superior water separation capability less processing and disposal cost (minimize purification needs)
- Low foaming and rapid air release full fluid lubrication (enhance performance) in highspeed bearings and meshing gear teeth.

Product Typicals

Characteristics	ISO Viscosity Grade			
Cital acteristics	32	46	68	80 *
Density @ 15 °C, kg/l	0.854	0.870	0.874	0.876
Pour Point, °C	-12	-9	-9	-9
Flash Point, °C	218	218	226	232
Kinematic V iscosity, cSt				
@ 40 °C 31.7	45.9	68.1	78.8	100
@ 100 °C	5.7	7.1	9.0	9.6
Viscosity Index	118	112	107	99
TAN, mgKOH/g	0.09	0.10	0.09	0.10
Rust Test	Pass	Pass	Pass	Pass
Foaming				
characteristics, ml				
Sequence I	0/0	0/0	0/0	0/0 0/0
Sequence II	10/0	20/0	40/0	10/0
Sequence III	0/0	0/0	0/0	0/0
Water Separability	40/40/0 (10)	40/40/0 (15)	40/40/0 (20)	40/40/0 (20)
RBOT, minutes	1136	1296	1010	1164
+Oxidation Control (TOST), hrs	> 15,000	> 15,000	> 15,000	> 15,000

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Characteristics	ISO Viscosity Grade 100		
Density @ 15 °C, kg/l	0.882		
Pour Point, °C	-9		
Flash Point, °C	228		
Kinematic V iscosity, cSt			
@ 40 °C 31.7			
@ 100 °C	11.3		
Viscosity Index	100		
TAN, mgKOH/g	0.10		
Rust Test	Pass		
Foaming characteristics, ml			
Sequence I			
Sequence II	10/0		
Sequence III	0/0		
Water Separability	40/40/0 (10)		
RBOT, minutes	1134		
+Oxidation Control (TOST), hrs	> 15,000		

- * Not an ISO Viscosity Grade
- + Test was stopped at 15,000 hrs with TAN of 0.17 mgKOH/g (way below limit of 2.0 mgKOH/g)

Specifications

- General Electric GEK 32568 F, GEK 107395 & GEK 101941 A
- Siemens / KWU TLV 9013/04-01
- DIN 51524 Part 2
- DIN 51524 Part 1 (HL)
- DIN 51515 Part 1 (L-TD)
- BS 489 (CIGRE)