Ammonia-resistant turbine oil

Performance Overview

Maxtop anti-ammonia steam turbine oil (MTARTO) is developed by adding anti-oxygen, anti-rust, anti-foam and other additives to highly refined base oil. It is designed to provide lubrication and sealing solutions for compressors and steam turbine units with ammonia as the medium. Excellent wear resistance, suitable for most conventional working conditions. Low temperature fluidity, ensure low temperature starting performance. Effectively neutralize ammonia, avoid precipitate formation, inhibit oxidation reaction, extend oil life, reduce bubble formation, and improve lubrication efficiency.

Features

01

Ammonia resistance: It can resist the chemical corrosion of ammonia gas and ammonia solution and protect the metal parts of the turbine.

02

Good lubricity: Provides effective lubrication and reduces wear on moving parts such as bearings and gears.

03

Oxidation stability: It is not easy to oxidize and deteriorate under high temperature and long-term operation conditions, thus extending the service life of the oil.

04

Anti-rust performance: Form a protective film on the metal surface to prevent rust.

Application Scenario

1. Fertilizer and chemical industry
Equipment: centrifugal ammonia compressor, ice machine.
2. Refrigeration equipment
Application: Ammonia refrigeration compressor.
3. Electricity and energy
Scene: Steam turbine generator set.

No. 138, Guanshan Road, Shuangliu District, Chengdu, China (Sichuan) Pilot Free Trade Zone
TEL: +8613541155698 EMAIL: maxtop@maxtop-oil.com
TEL: +864008330667 Website: www.maxtop-oil.com

Ammonia resistant turbine oil performance indicators

Project		Quality indicators			
Brand		32	32D	46	68
Kinematic viscosity (40℃)/(mm2/s)		28.8~35.2	28.8~35.2	41.4~50.6	61.2~74.8
Viscosity index	not less than	95			
Pour point/℃	not higher than	-17	-27	-17	-17
Flash point (open), ℃	not less than	200			
Ash content (before adding agent), %	not more than	0.005			
Oxidation stability Time for acid value to reach 2.0mg(KOH)/g, h	not less than	2000			
Demulsification time (54 ℃ , 40-37-3), min	No more than	15	15	15	20
Neutralization value(After adding agent), mg (KOH)/g	not more than	0.03			
Water content, %		none			
Mechanical impurities, %		none			
Oxidation stability Time for acid value to reach 2.0mg (KOH)/g, h	Not less than	2000			
Liquid phase corrosion test (No. 15 steel bar)	Distilled water, 2h	Rust-free			
Ammonia resistance test		qualified			

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