

## RMM TURO SERIES/速成 TURO 系列

### Turbine Oil/涡轮机油

#### Product Description/ 产品说明

RMM TURO Series consists of a range of premium quality zinc free turbine oil. RMM TURO series offer superior performance to meet the most modern Steam turbine system and gas turbine system. This series treated with high refined base oil and additives to perform superior rust & oxidation resistance, high thermal stability, anti-foaming characteristics and excellent water separability to warranty in good operation and longer service life.

速成 TURO 系列是优质无锌涡轮机油。速成 TURO 系列有杰出的性能满足现代蒸汽轮机和燃气轮机系统。该系列采用精心选择的基础油和添加剂配制而成，使轮机油有更好的防锈防腐保护功能，抗氧化能力，热稳定性，抗乳化性和抗泡特性，卓越的水分离性，有效保障涡轮机良好运行和延长保养寿命。

#### Features and Benefits/特征与优越性及优点

- Strong control of oxidation
- High resistance to forming and rapid air release
- Improve rust and corrosion protection
- Good anti-wear protection
- Zinc Free
- 抗氧化能力强
- 出色的水分离性和抗泡特性
- 增强的防锈和防腐蚀能力
- 优良抗磨损性能
- 无锌

#### Applications/应用范围

- Industrial steam turbine & light duty gas turbines
- Hydroelectric lubrication
- Centrifugal and axial, dynamic turbo compressor and pump where an R&O type or turbine oil is recommended.
- 工业蒸汽轮机和轻负燃气轮机
- 水轮机的润滑
- 使用 R&O 类型的油或涡轮机油润滑的离心式及轴流式动力涡轮压缩机或泵

## Meet Standard Performance/标准性能达到

- ISO 8068 TSA/TGA
- Fives Cincinnati
- DIN 51515-1 TD
- BS 489:1999
- Solar ES9-224Y Class 2
- Ansaldo Energia 606W807 Rev.C (2012)
- Siemens TLV 9013 04
- Siemen Turbo Compressor
- Alstom Power Hydro Generator
- JIS K 2213 -1983 Type II
- ASTM D 4304 Type I
- GE GEK 28143B

## Properties and Specifications/典型数据

| TURO Series/系列                                                      |        |        |       |       |
|---------------------------------------------------------------------|--------|--------|-------|-------|
| ISO Grade 等级                                                        | 32     | 46     | 68    | 100   |
| Kinematic Viscosity/粘度, @ 40° C, mm <sup>2</sup> /s, ASTM D445      | 5.45   | 6.90   | 8.95  | 11.7  |
| Viscosity Index/粘度指数, ASTM D2270                                    | 105    | 105    | 105   | 105   |
| Density/密度 @ 15°C, g/cm <sup>3</sup> , ASTM D4052                   | 0.840  | 0.860  | 0.870 | 0.872 |
| Flash Point/闪点, Cleveland Open Cup, °C, ASTM D92                    | 210    | 220    | >220  | >220  |
| Pour Point/倾点, °C, ASTM D97                                         | -30    | -25    | -25   | -20   |
| Total Acid Number 总酸值, mgKOH/g, ASTM D974                           | 0.10   | 0.10   | 0.10  | 0.10  |
| Air Release/空气释放性 @50°C, Minutes, ASTM D3427                        | 4      | 4      | 4     | 8     |
| Water Demulsibility/抗水乳化性, Minutes                                  | 15     | 15     | 20    | 20    |
| Rust Control/防锈性, ASTM D665B                                        | Pass   | Pass   | Pass  | Pass  |
| Oxidation Control Test-TOS Life, Hours, 氧化稳定性测试-TOS 寿命, ASTM D943   | 10,000 | 10,000 | 7,000 | 5,000 |
| Oxidation Control Test-RPVOT, minute min, 氧化稳定性测试-RPVOT, ASTM D2272 | 950    | 950    | 600   | 500   |