

SCL-32 Compressor Oil

Hanwha Genuine Lubricant is specially developed to maintain optimum performance of Hanwha Turbo Compressor.

SCL-32 creates a proper layer of film between moving parts to thwart friction and wear, helps safeguard components surface against extreme pressure. Thereby, SCL-32 improves the life span and efficiency of compressor.

SCL-32 is the most suitable lubricant for various types of Hanwha compressor.

We strongly recommend to use of SCL-32. Pick the right lubricant and avoid needless risk,



EXCELLENCE of SCL-32



Extend Life Span

**Extension of oil change period :
16,000HR (2Year)**

- Lubricant can be used for about 2 years due to exceptional oxidation stability

Apply various technologies to improve performance

- Sludge/Varnish control technology,
Thermal stability control technology etc.



Energy Saving Effect

Outstanding Anti-wear & Extreme pressure performance

- 4-Ball wear tests show that SCL-32 is the most superior to other commercial products
- Excellent protection of the rotating parts from extreme pressure

Traction coefficient test result : 12-15% lower than mineral/pure oil



High Quality & Stability

Mineral Based Synthetic Compressor Oil (ISO VG 32)

- API Group III Base Oil (High Paraffinic & high VI)
- High Solubility Synthetic Base Oil

Strengthen Low-Temperature properties

- Freezing point -32.5 °C



If you order lubricant analysis, you can check the efficiency and current condition of the compressor by analyzing the oil samples, which can effectively prepare preventive maintenance.

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Guidance for Compressor Oil (SCL-32) Exchange

| Check Items | Test Method | Recommended Action | | Remarks |
|---------------------------------------|-------------|--------------------|------------------|---------------------|
| | | Warning | Exchange | |
| Viscosity(°C), % | ASTM D445 | 10 ↑ | 15 ↑ | Mandatory Test Item |
| Acid Number, mg KOH/g | ASTM D664 | 0.3 ↑ | 0.5 ↑ | |
| Water Content, vol % | ASTM D95 | 0.1 ↑ | 0.2 ↑ | |
| Sediment, vol % | ASTM D91 | 0.1 ↑ | 0.2 ↑ | |
| RPVOT, minute | ASTM D2272 | - | 25% ↓ of new oil | Reference |
| Foam Tendency & Stability, Seq. 1, ml | ASTM D892 | - | 450/10 | |
| Demulsibility, min | ASTM D1401 | - | 60 | |
| Rust Preventive (A method) | - | - | FAIL | |

On-site visual inspection Check the lubricant status by color and transparency

- In case of cloudy oil under the machine stop state (Oil contains excess water content)
 - Need to exchange lubricant or analyze check item details
- In case of lower transparency
 - Check the above items
- In case of dark brown color or high transparency
 - Continue to use (Normal discoloration of used oil)

Physical & Chemical Properties

| Performance Test | Test Method | SCL-32 (ISO VG32) |
|---|-------------|-------------------|
| Specific Gravity, 15/4°C | ASTM D1298 | 0.8479 |
| Kinematic Viscosity@40°C, cSt | ASTM D445 | 32.69 |
| Kinematic Viscosity@100°C, cSt | ASTM D445 | 5.595 |
| Viscosity Index | ASTM D2270 | 130 |
| Pouring Point, °C | ASTM D97 | -32.5 |
| Flash Point, °C | ASTM D92 | 234 |
| Oxidation Stability (RBOT), min | ASTM D2272 | 2546 |
| TAN, mgKOH/g | ASTM D664 | 0.24 |
| Foaming Tendency, ml | ASTM D892 | 10/0 |
| Demulsibility, ml (min) Oil – Water – cuff. | ASTM D1401 | 42–38–0 (5) |
| Copper Corrosion, 100 °C, 3 hr | ASTM D130 | 1–a |
| 4-Ball Wear, mm | ASTM D4172 | 0.41 |

| Packing unit | Order Number |
|--------------|-----------------------------|
| DRUM (200L) | Order Number ; CM02-001018A |
| PAIL (20L) | Order Number ; CM02-001019A |

