

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id

24B1507 PEL-005a

Component New (Unused) Oil

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| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History |
|--|----------------------|------------------|-----------------|-----------|----------------|----------|---------|
| This is a baseline read-out on the submitted sample. | Sample Number | | Client Info | | HPL0000899 | | |
| riis is a baseime read-out on the submitted sample. | Sample Date | | Client Info | | 20 Feb 2024 | | |
| | Machine Age | hrs | Client Info | | 0 | | |
| | Oil Age | hrs | Client Info | | 0 | | |
| | Filter Age | hrs | Client Info | | 0 | | |
| | Oil Changed | | Client Info | | Not Changd | | |
| | Filter Changed | | Client Info | | N/A | | |
| <u></u> | Sample Status | | | | NORMAL | | |
| /EAR | Iron | ppm | ASTM D5185m | | 0 | | |
| | Chromium | ppm | ASTM D5185m | | <1 | | |
| | Nickel | ppm | ASTM D5185m | | 0 | | |
| | Titanium | ppm | ASTM D5185m | | 0 | | |
| | Silver | ppm | ASTM D5185m | | 0 | | |
| | Aluminum | ppm | ASTM D5185m | | 0 | | |
| | Lead | ppm | ASTM D5185m | | 0 | | |
| | Copper | ppm | ASTM D5185m | | 0 | | |
| | Tin | ppm | ASTM D5185m | | <1 | | |
| | Vanadium | ppm | ASTM D5185m | | 0 | | |
| | White Metal | scalar | *Visual | NONE | NONE | | |
| <u></u> | Yellow Metal | scalar | *Visual | NONE | NONE | | |
| ONTAMINATION | Silicon | ppm | ASTM D5185m | | 8 | | |
| | Potassium | ppm | ASTM D5185m | >20 | 1 | | |
| | Water | | WC Method | | NEG | | |
| | Particles >4μm | | ASTM D7647 | | 4141 | | |
| | Particles >6μm | | ASTM D7647 | | 782 | | |
| | Particles >14µm | | ASTM D7647 | | 45 | | |
| | Particles >21µm | | ASTM D7647 | | 6 | | |
| | Particles >38µm | | ASTM D7647 | | 0 | | |
| | Particles >71µm | | ASTM D7647 | | 0 | | |
| | Oil Cleanliness | | ISO 4406 (c) | | 19/17/13 | | |
| | Silt | scalar | *Visual | NONE | NONE | | |
| | Debris | scalar | *Visual | NONE | NONE | | |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | | |
| | Appearance Odor | scalar | *Visual *Visual | NORML | NORML NORML | | |
| | Emulsified Water | scalar | *Visual | NORML | NEG | | |
| | Linusilleu Walei | scalar | visuai | | | | |
| UID CONDITION | Sodium | ppm | ASTM D5185m | | 0 | | |
| | Boron | ppm | ASTM D5185m | | 0 | | |
| | Barium | ppm | ASTM D5185m | | 95 | | |
| | Molybdenum | ppm | ASTM D5185m | | 0 | | |
| | Manganese | ppm | ASTM D5185m | | 0 | | |
| | Magnesium | ppm | ASTM D5185m | | <1 | | |
| | Calcium | ppm | ASTM D5185m | | 107 | | |
| | Phosphorus | ppm | ASTM D5185m | | 107 | | |
| | Zinc | ppm | ASTM D5185m | | 11202 | | |
| | Sulfur | ppm ma I/OU/a | ASTM D5185m | | 11302 | | |
| | Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.08 | | |
| | Visc @ 40°C | cSt | ASTM D445 | | 32.66 | | |
| | Visc @ 100°C | cSt | ASTM D445 | | 5.45 | | |
| | Viscosity Index (VI) | Scale | ASTM D2270 | | 101 | | |





Certificate L2367

Laboratory Sample No. Unique Number: 10901648

: HPL0000899 Lab Number : 06103418

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed

Test Package: MOB 2 (Additional Tests: FT-IR, KV100, PrtCount, VI)

: 28 Feb 2024

: 04 Mar 2024 : 04 Mar 2024 - Jonathan Hester

HIGH PERFORMANCE LUBRICANTS LLC 500 S SPRUCE ST MANTENO, IL US 60950

Contact: DAVID WARD sampledata@hplubricants.com T: (815)468-3535

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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