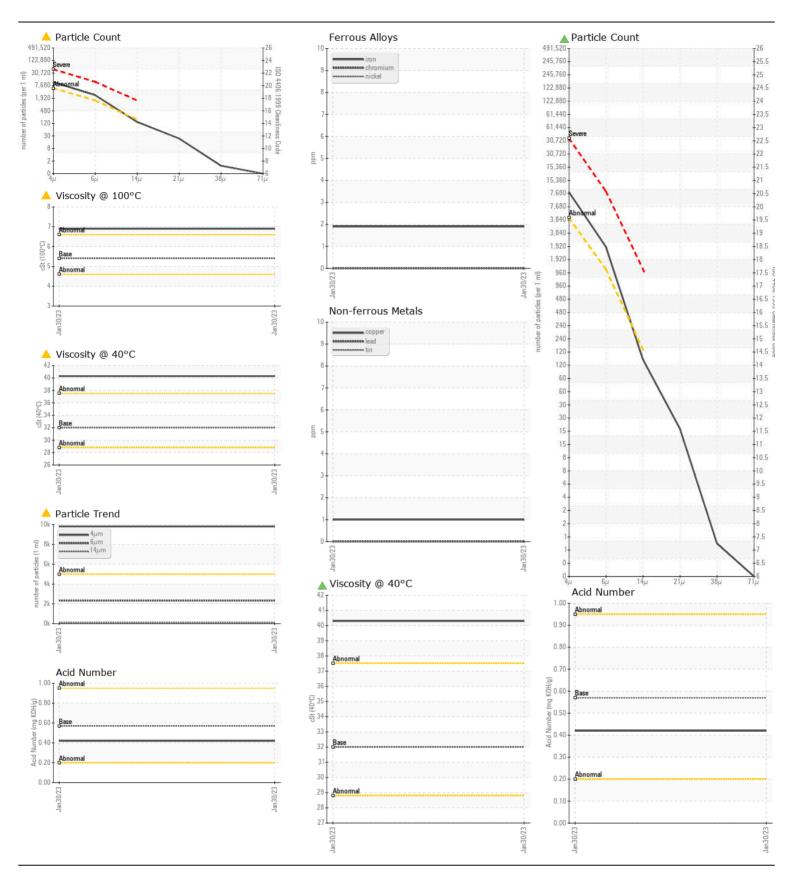
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ATTENTION **ATTENTION**

Machine Id **4250280**

Component Hydraulic System

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--|------------------|----------|--------------|-----------|--------------|----------|----------|
| | Sample Number | | Client Info | | WC0741550 | | |
| The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. | Sample Date | | Client Info | | 30 Jan 2023 | | |
| | 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 | | Changed | | |
| | Sample Status | | | | ATTENTION | | |
| /EAR | Iron | ppm | ASTM D5185m | >20 | 2 | | |
| | Chromium | ppm | ASTM D5185m | >10 | 0 | | |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | | 0 | | |
| | Titanium | ppm | ASTM D5185m | | 0 | | |
| | Silver | ppm | ASTM D5185m | | 0 | | |
| | Aluminum | ppm | ASTM D5185m | >10 | 0 | | |
| | Lead | ppm | ASTM D5185m | | 0 | | |
| | Copper | ppm | ASTM D5185m | | 1 | | |
| | Tin | ppm | ASTM D5185m | | 0 | | |
| | Vanadium | ppm | ASTM D5185m | | 0 | | |
| | White Metal | scalar | *Visual | NONE | NONE | | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | | |
| CONTAMINATION | Ciliaan | | ACTM DE10Em | . 00 | 4 | | |
| | Silicon | ppm | ASTM D5185m | | <1 | | |
| There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. | Potassium | ppm | ASTM D5185m | | 0 | | |
| | Water | | WC Method | >0.1 | NEG | | |
| | Particles >4µm | | ASTM D7647 | | 9810 | | |
| | Particles >6µm | | ASTM D7647 | | 2335 | | |
| | Particles >14µm | | ASTM D7647 | | 123 | | |
| | Particles >21µm | | ASTM D7647 | | 20 | | |
| | Particles >38µm | | ASTM D7647 | | 1 | | |
| | Particles >71µm | | ASTM D7647 | | 0 | | |
| | Oil Cleanliness | | ISO 4406 (c) | | 20/18/14 | | |
| | Silt | scalar | *Visual | NONE | NONE | | |
| | Debris | scalar | *Visual | NONE | NONE | | |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | | |
| | Appearance | scalar | *Visual | NORML | NORML | | |
| | Odor | scalar | *Visual | NORML | NORML | | |
| | Emulsified Water | scalar | *Visual | >0.1 | NEG | | |
| LUID CONDITION | Sodium | ppm | ASTM D5185m | | 0 | | |
| | Boron | ppm | ASTM D5185m | 5 | 0 | | |
| Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid. | Barium | ppm | ASTM D5185m | 5 | 0 | | |
| | Molybdenum | ppm | ASTM D5185m | 5 | 0 | | |
| | Manganese | ppm | ASTM D5185m | | 0 | | |
| | Magnesium | ppm | ASTM D5185m | 25 | 1 | | |
| | Calcium | ppm | ASTM D5185m | 200 | 64 | | |
| | Phosphorus | ppm | ASTM D5185m | 300 | 322 | | |
| | Zinc | ppm | ASTM D5185m | | 423 | | |
| | Sulfur | ppm | ASTM D5185m | | 5758 | | |
| | Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.42 | | |
| | Visc @ 40°C | cSt | ASTM D445 | | 40.3 | | |
| | Visc @ 100°C | cSt | ASTM D445 | 5.4 | ▲ 6.9 | | |
| | | | ASTM D2270 | | 130 | | |





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WC0741550 : 05771265 : 10345882

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 17 Feb 2023 Diagnosed : 20 Feb 2023 Diagnostician : Doug Bogart

Test Package : MOB 2 (Additional Tests: KV100, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

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