



OIL ANALYSIS REPORT

| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
MRC-318
Component
Compressor
Fluid
TULCO LUBSOIL LPG WS 150 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | TO60002319 | TO60002139 | TO60002149 |
| Sample Date | | Client Info | | 01 Apr 2024 | 01 Mar 2024 | 05 Feb 2024 |
| Machine Age | hrs | Client Info | | 4207 | 4085 | 3946 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >50 | <1 | 0 | 0 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 1 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >25 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >50 | <1 | 0 | <1 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

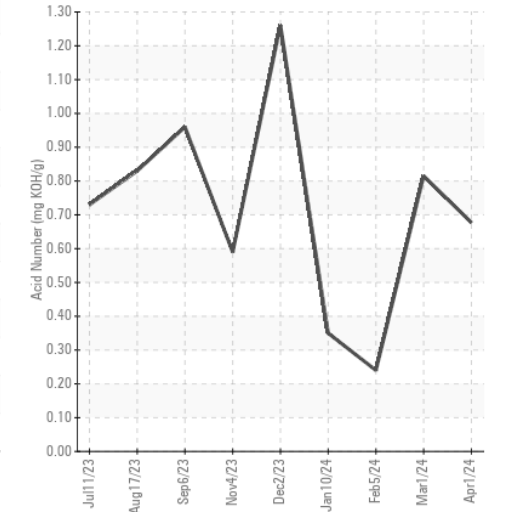
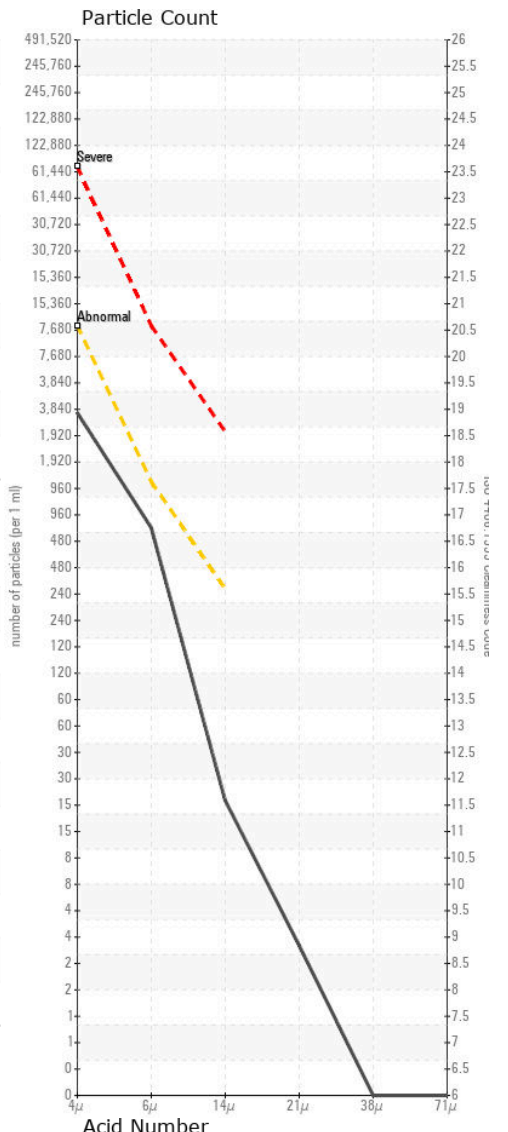
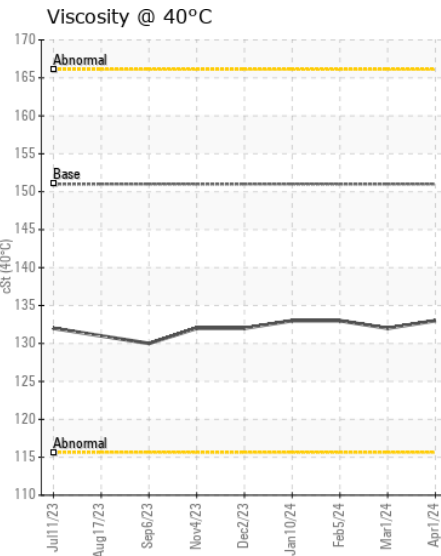
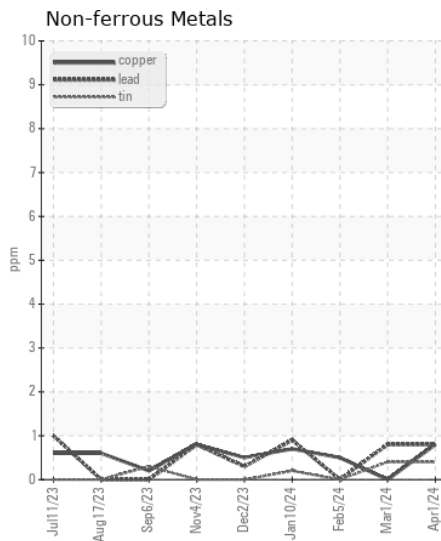
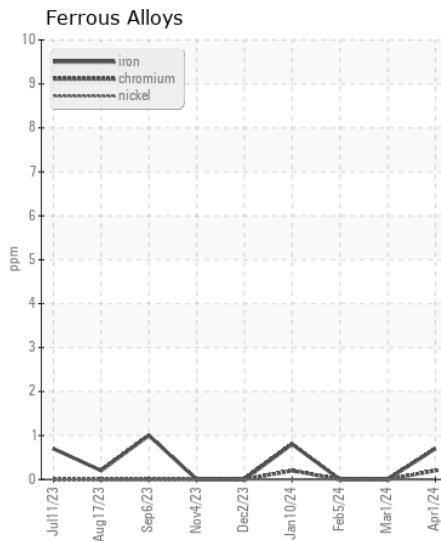
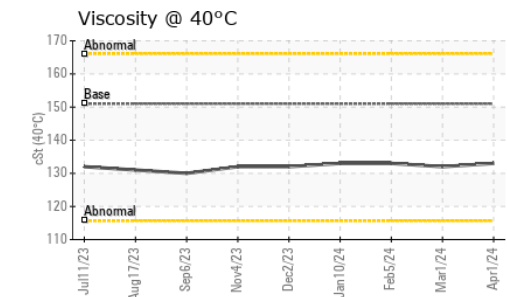
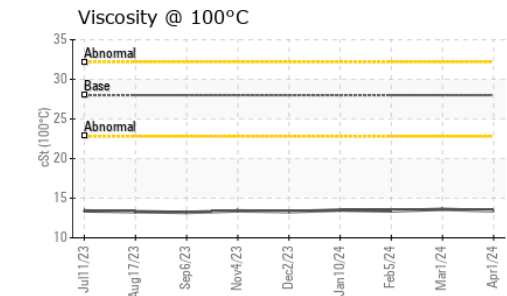
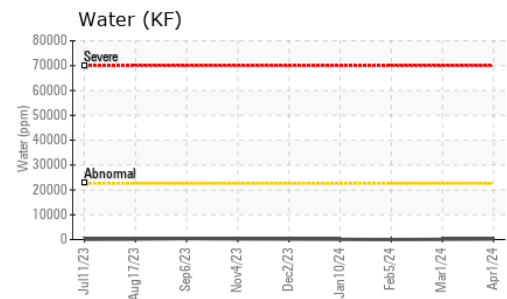
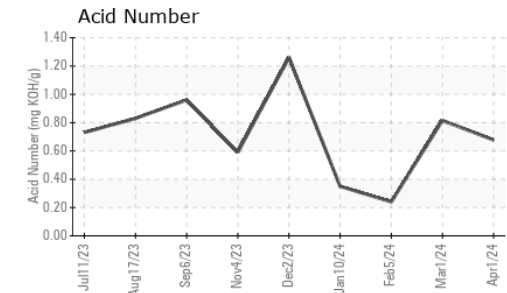
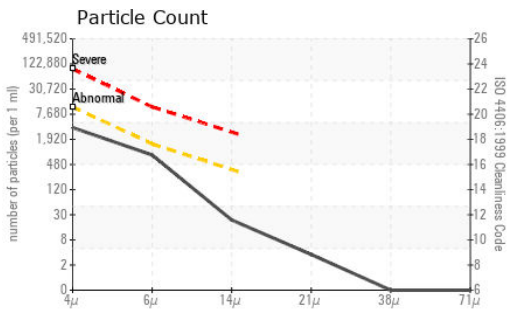
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >25 | 3 | 2 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 1 | <1 |
| Water | % | ASTM D6304 | >2.26 | 0.018 | 0.007 | 0.00 |
| ppm Water | ppm | ASTM D6304 | >22600 | 180 | 76 | 0 |
| Particles >4µm | | ASTM D7647 | >10000 | 3202 | 3633 | 2604 |
| Particles >6µm | | ASTM D7647 | >1300 | 710 | 1180 | 336 |
| Particles >14µm | | ASTM D7647 | >320 | 20 | 85 | 17 |
| Particles >21µm | | ASTM D7647 | >80 | 3 | 16 | 5 |
| Particles >38µm | | ASTM D7647 | >20 | 0 | 1 | 0 |
| Particles >71µm | | ASTM D7647 | >4 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >20/17/15 | 19/17/11 | 19/17/14 | 19/16/11 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >2.26 | NEG | NEG | NEG |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|----------------------|----------|-------------|-----|--------------|-------|------|
| Sodium | ppm | ASTM D5185m | | 4 | 2 | 3 |
| Boron | ppm | ASTM D5185m | 0 | 56 | 61 | 74 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | 7 | 8 | 8 |
| Calcium | ppm | ASTM D5185m | 0 | 1228 | 1255 | 1230 |
| Phosphorus | ppm | ASTM D5185m | 0 | 311 | 275 | 288 |
| Zinc | ppm | ASTM D5185m | 0 | 318 | 310 | 309 |
| Sulfur | ppm | ASTM D5185m | 0 | 3157 | 2976 | 2163 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.677 | 0.815 | 0.24 |
| Visc @ 40°C | cSt | ASTM D445 | 151 | 133 | 132 | 133 |
| Visc @ 100°C | cSt | ASTM D445 | 28 | 13.4 | 13.6 | 13.4 |
| Viscosity Index (VI) | Scale | ASTM D2270 | 224 | 94 | 98 | 94 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002319 **Received** : 19 Apr 2024
Lab Number : 06154469 **Tested** : 22 Apr 2024
Unique Number : 10989892 **Diagnosed** : 23 Apr 2024 - Angela Borella
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

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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)