



OIL ANALYSIS REPORT

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

Area
EMPW
Machine Id

Component
Desma 3
Hydraulic System

Fluid
TULCO LUBSOIL SUPER HYDRAULIC AW 68 (140 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | TO50002032 | --- | --- |
| Sample Date | | Client Info | | 23 Apr 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 3527 | --- | --- |
| Oil Age | hrs | Client Info | | 3527 | --- | --- |
| Filter Age | hrs | Client Info | | 1107 | --- | --- |
| Oil Changed | | Client Info | | Filtered | --- | --- |
| Filter Changed | | Client Info | | N/A | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-----|-----|
| Iron | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Chromium | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Lead | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >20 | <1 | --- | --- |
| Tin | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

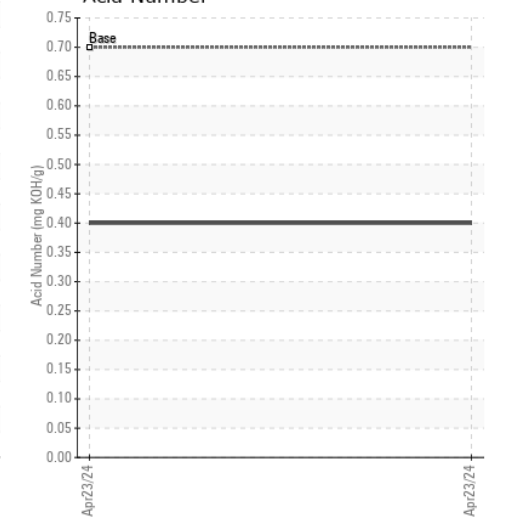
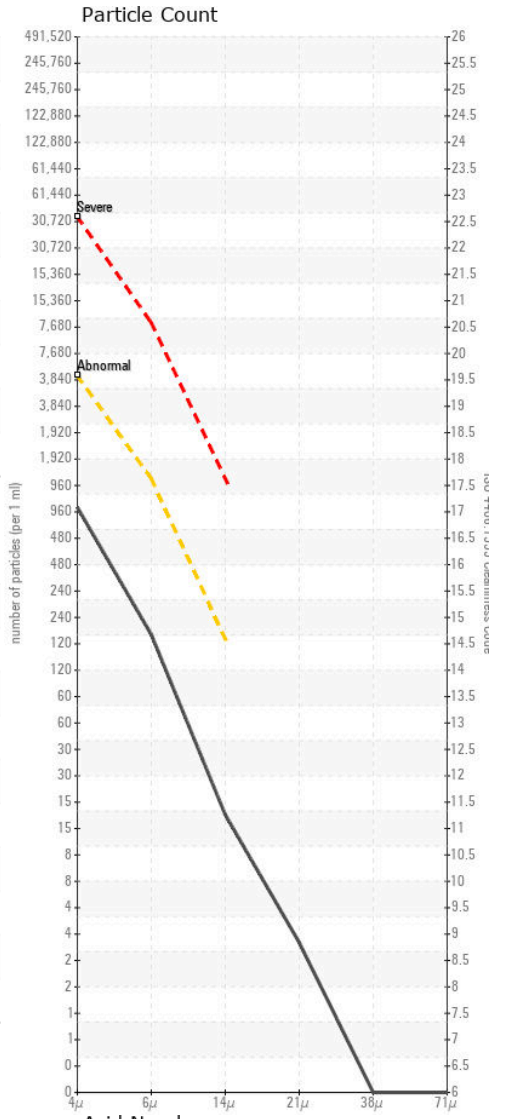
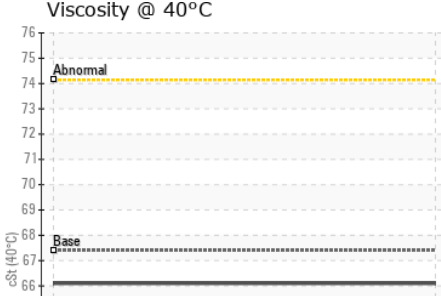
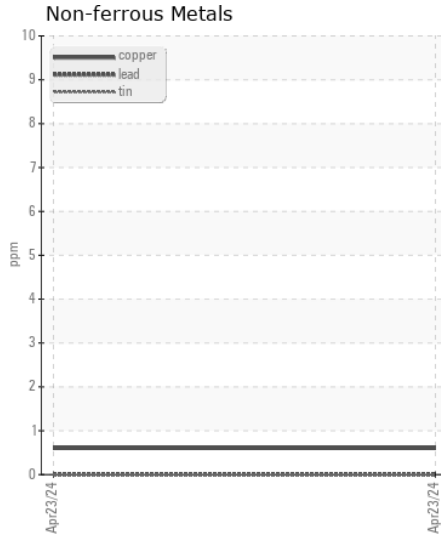
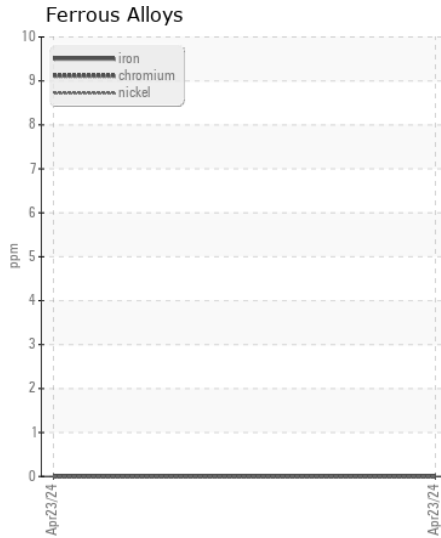
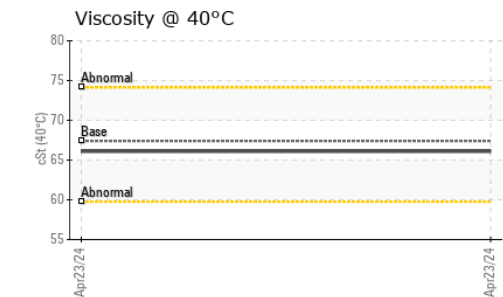
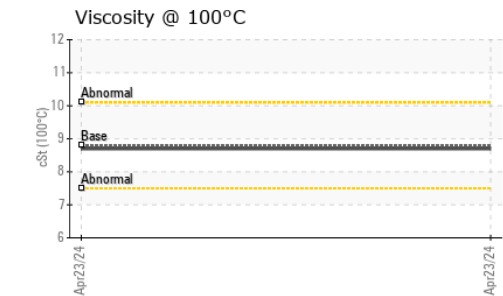
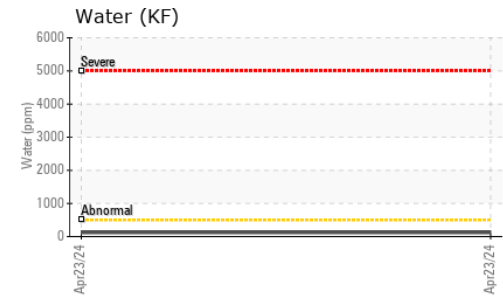
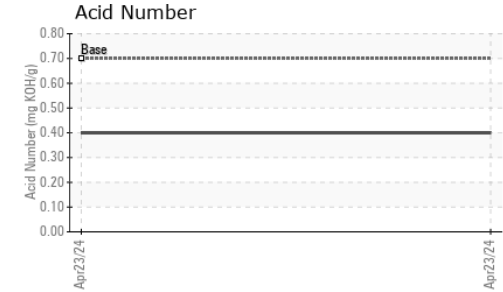
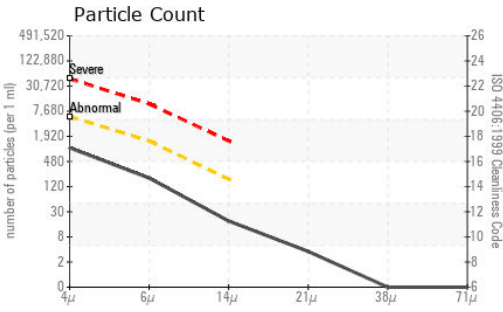
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|-----|-----|
| Silicon | ppm | ASTM D5185m | >15 | 1 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 1 | --- | --- |
| Water | % | ASTM D6304 | >0.05 | 0.012 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >500 | 123 | --- | --- |
| Particles >4µm | | ASTM D7647 | >5000 | 894 | --- | --- |
| Particles >6µm | | ASTM D7647 | >1300 | 169 | --- | --- |
| Particles >14µm | | ASTM D7647 | >160 | 16 | --- | --- |
| Particles >21µm | | ASTM D7647 | >40 | 3 | --- | --- |
| Particles >38µm | | ASTM D7647 | >10 | 0 | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 17/15/11 | --- | --- |
| 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 | >0.05 | 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 | | 1 | --- | --- |
| Boron | ppm | ASTM D5185m | | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 82 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 92 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 425 | 340 | --- | --- |
| Zinc | ppm | ASTM D5185m | 500 | 398 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 1900 | 2086 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.7 | 0.40 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 67.4 | 66.1 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 8.8 | 8.7 | --- | --- |
| Viscosity Index (VI) | Scale | ASTM D2270 | 102 | 103 | --- | --- |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50002032 **Received** : 09 May 2024
Lab Number : 06174590 **Tested** : 10 May 2024
Unique Number : 11020643 **Diagnosed** : 10 May 2024 - Wes Davis
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

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Certificate L2367
 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)