



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

Machine Id
DOROTHY ELISE

Component
Port Reduction Gear

Fluid
CHEVRON DELO 400 SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | MW0067209 | MW0067207 | MW0056317 |
| Sample Date | | Client Info | | 17 Jun 2024 | 06 May 2024 | 12 Feb 2024 |
| Machine Age | hrs | Client Info | | 13108 | 12394 | 11972 |
| Oil Age | hrs | Client Info | | 220 | 850 | 400 |
| Filter Age | hrs | Client Info | | 220 | 207 | 400 |
| Oil Changed | | Client Info | | N/A | Not Changd | N/A |
| Filter Changed | | Client Info | | N/A | Not Changd | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >150 | 4 | 4 | 6 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 3 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >100 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 46 | 43 | 43 |
| Tin | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

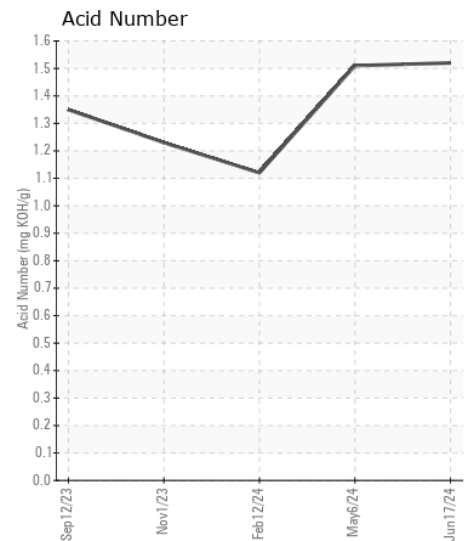
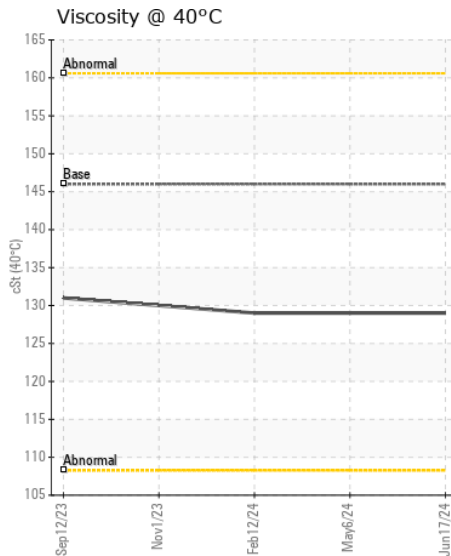
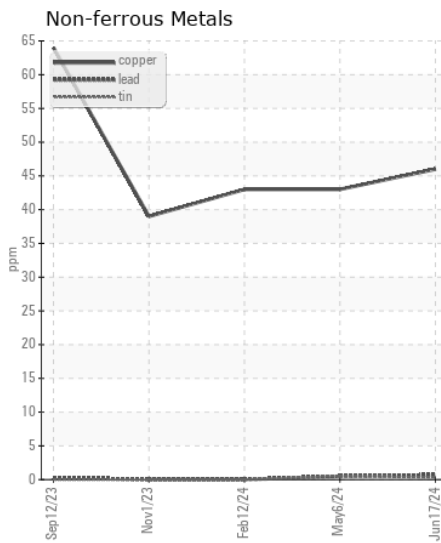
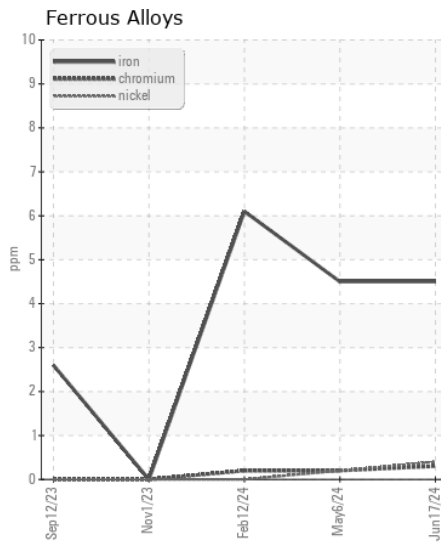
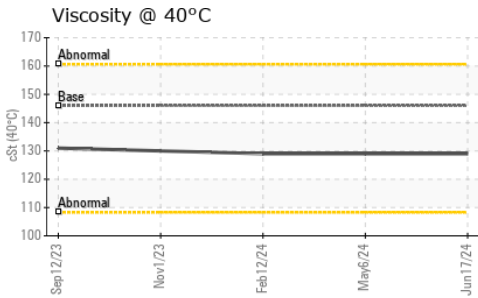
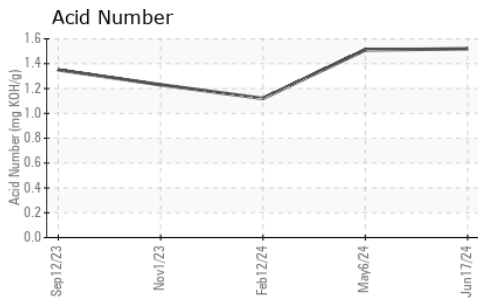
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 4 | 4 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 3 | 2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| 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 | >0.1 | 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 | | 1 | <1 | 0 |
| Boron | ppm | ASTM D5185m | | 151 | 166 | 150 |
| Barium | ppm | ASTM D5185m | | 2 | <1 | <1 |
| Molybdenum | ppm | ASTM D5185m | | 99 | 104 | 107 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | | 34 | 54 | 35 |
| Calcium | ppm | ASTM D5185m | | 3021 | 2993 | 2896 |
| Phosphorus | ppm | ASTM D5185m | 1160 | 1240 | 1077 | 1071 |
| Zinc | ppm | ASTM D5185m | 1270 | 1192 | 1169 | 1202 |
| Sulfur | ppm | ASTM D5185m | | 4072 | 4170 | 3976 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 1.52 | 1.51 | 1.12 |
| Visc @ 40°C | cSt | ASTM D445 | 146 | 129 | 129 | 129 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0067209
Lab Number : 06218852
Unique Number : 11097049
Test Package : MAR 2

Received : 24 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 2024 - Wes Davis

MAGNOLIA MARINE TRANSPORT
 697 HAINING ROAD
 VICKSBURG, MS
 US 39183
 Contact: MMT MAINTENANCE PLANNERS
 mmtmaintenanceplanners@ergon.com

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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