



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

Area
ROBIN B INGRAM
Machine Id
[ROBIN B INGRAM] 004 617985-4
Component
Port Reduction Gear
Fluid
CHEVRON MEROPA 320 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|---------------|-------------|-------------|
| Sample Number | | Client Info | | MW06193065 | MW06159844 | MW06159841 |
| Sample Date | | Client Info | | 28 May 2024 | 01 Apr 2024 | 29 Feb 2024 |
| Machine Age | hrs | Client Info | | 65757 | 64747 | 63946 |
| 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 | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|-------|------|------|
| Iron | ppm | ASTM D5185m | >150 | 66 | 70 | 68 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 1 | 1 |
| Nickel | ppm | ASTM D5185m | >10 | 1 | 2 | 2 |
| Titanium | ppm | ASTM D5185m | | 2 | 2 | 2 |
| Silver | ppm | ASTM D5185m | | 1 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m | >25 | 6 | 6 | 6 |
| Lead | ppm | ASTM D5185m | >100 | <1 | 2 | 2 |
| Copper | ppm | ASTM D5185m | >50 | 6 | 6 | 6 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 1 | 2 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| White Metal | scalar | *Visual | NONE | LIGHT | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

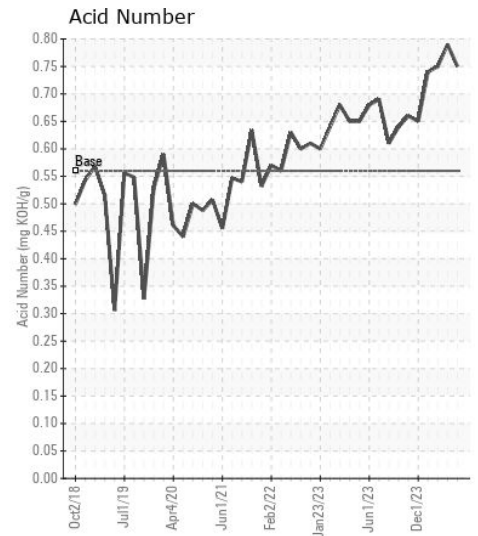
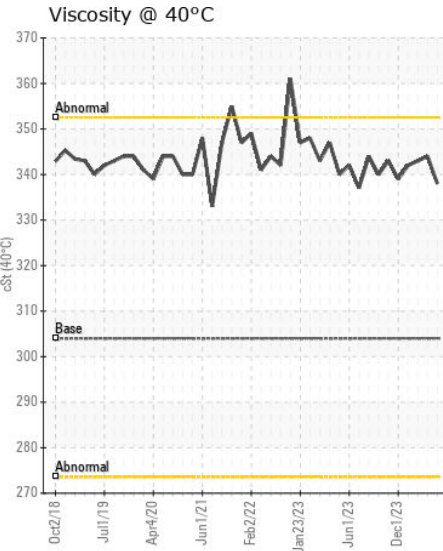
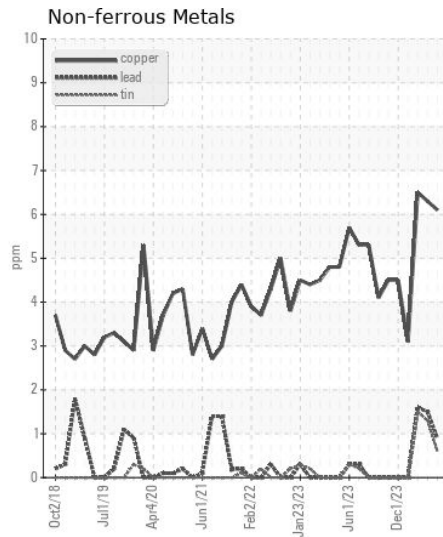
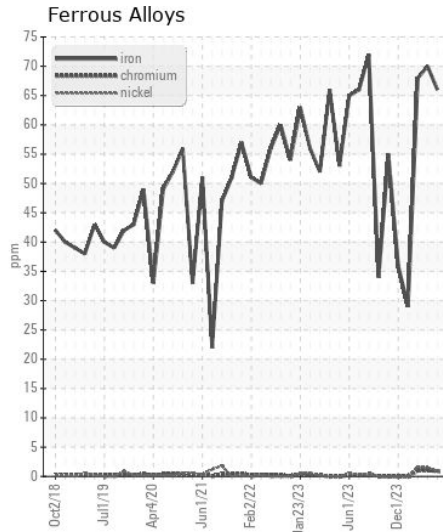
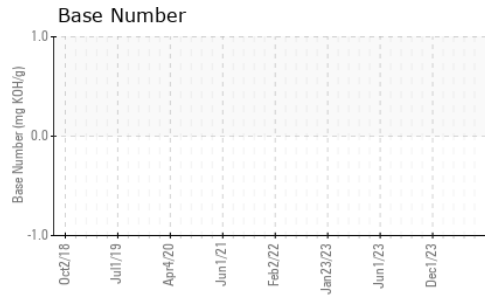
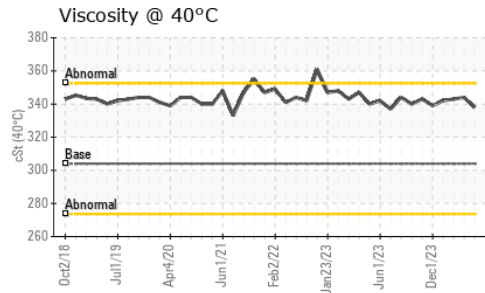
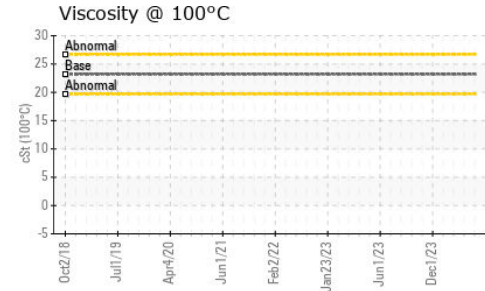
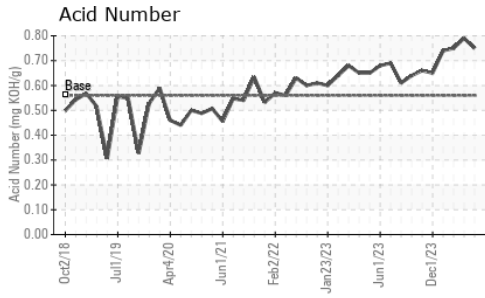
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|-------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 5 | 6 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 3 | 3 |
| 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 | | 5 | 4 | 4 |
| Boron | ppm | ASTM D5185m | 20 | 1 | 2 | 6 |
| Barium | ppm | ASTM D5185m | | 14 | 16 | 16 |
| Molybdenum | ppm | ASTM D5185m | 0 | 9 | 9 | 10 |
| Manganese | ppm | ASTM D5185m | | 1 | 2 | 2 |
| Magnesium | ppm | ASTM D5185m | | 2 | 3 | 13 |
| Calcium | ppm | ASTM D5185m | 25 | 165 | 103 | 133 |
| Phosphorus | ppm | ASTM D5185m | 235 | 201 | 250 | 255 |
| Zinc | ppm | ASTM D5185m | | 8 | 4 | 19 |
| Sulfur | ppm | ASTM D5185m | | 5786 | 7423 | 7152 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.56 | 0.75 | 0.79 | 0.75 |
| Visc @ 40°C | cSt | ASTM D445 | 304 | 338 | 344 | 343 |
| Viscosity Index (VI) | Scale | ASTM D2270 | 95 | 92 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW06193065 **Received** : 28 May 2024
Lab Number : 06193065 **Tested** : 31 May 2024
Unique Number : 11049817 **Diagnosed** : 31 May 2024 - Sean Felton
Test Package : MAR 2 (Additional Tests: FT-IR, KV100, TBN, 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)

INGRAM BARGE
 900 S 3RD ST
 PADUCAH, KY
 US 42003

Contact: DALE MORIE
 dale.morie@ingrambarge.com

T: (270)415-4467
 F: (615)695-3697