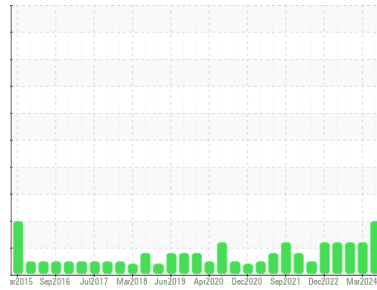




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area

RP-108

Machine Id

B58168 - CONVEYOR TRAMCO BLOOD LOADOUT (S/N FB-1768)

Component

Gearbox

Fluid

PETRO CANADA ENDURATEX EP 320 (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of particulates present in the oil.

● Fluid Condition

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0930411 | WC0894929 | WC0866751 |
| Sample Date | Client Info | | 05 Jun 2024 | 20 Mar 2024 | 05 Dec 2023 |
| Machine Age | mths | Client Info | 0 | 0 | 0 |
| Oil Age | mths | Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | | N/A | N/A | N/A |
| Sample Status | | | ABNORMAL | ABNORMAL | ABNORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 | |
|----------|--------|-------------|---------|--------------|----------|---|
| Iron | ppm | ASTM D5185m | >200 | 11 | 3 | 2 |
| Chromium | ppm | ASTM D5185m | >15 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >15 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | <1 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >100 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >200 | 0 | 1 | 0 |
| Tin | ppm | ASTM D5185m | >25 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 | |
|------------|--------|-------------|---------|--------------|----------|------|
| Boron | ppm | ASTM D5185m | 55 | 13 | 21 | 23 |
| Barium | ppm | ASTM D5185m | 0 | 1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 0 | 1 | 0 | <1 |
| Calcium | ppm | ASTM D5185m | 0 | 7 | <1 | 4 |
| Phosphorus | ppm | ASTM D5185m | 240 | 441 | 422 | 451 |
| Zinc | ppm | ASTM D5185m | 1 | 55 | 5 | 14 |
| Sulfur | ppm | ASTM D5185m | 13700 | 5907 | 6256 | 5959 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|-------------|---------|-----------|----------|----|
| Silicon | ppm | ASTM D5185m | >50 | 11 | <1 | <1 |
| Sodium | ppm | ASTM D5185m | | 2 | <1 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 0 | <1 |

FLUID CLEANLINESS

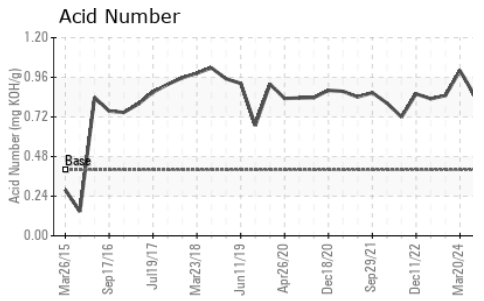
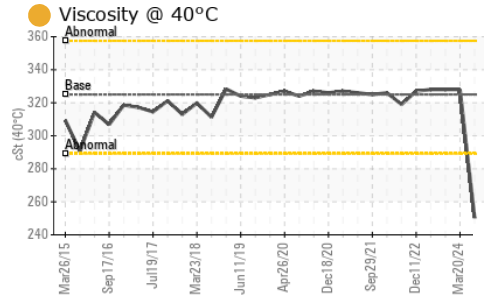
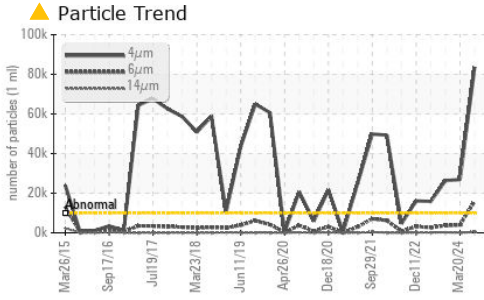
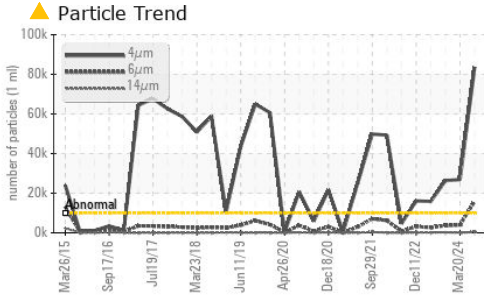
| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-------------------|------------|------------|
| Particles >4µm | ASTM D7647 | >10000 | ▲ 83602 | ▲ 26896 | ▲ 26318 |
| Particles >6µm | ASTM D7647 | >2500 | ▲ 16018 | ● 3996 | ● 3677 |
| Particles >14µm | ASTM D7647 | >320 | ▲ 368 | 103 | 258 |
| Particles >21µm | ASTM D7647 | >80 | 78 | 18 | 87 |
| Particles >38µm | ASTM D7647 | >20 | 7 | 1 | 3 |
| Particles >71µm | ASTM D7647 | >4 | 4 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) | >20/18/15 | ▲ 24/21/16 | ▲ 22/19/14 | ▲ 22/19/15 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 | |
|------------------|----------|------------|---------|-------------|----------|------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.4 | 0.85 | 1.00 | 0.85 |



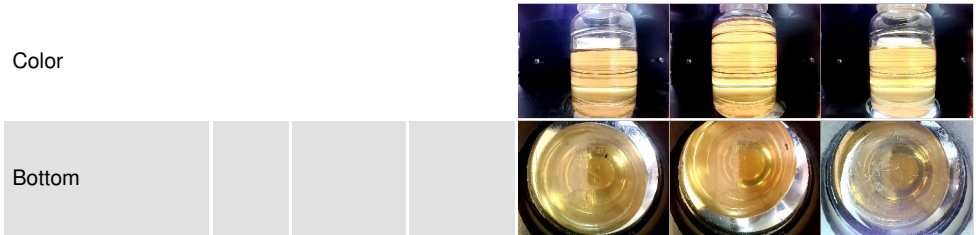
OIL ANALYSIS REPORT



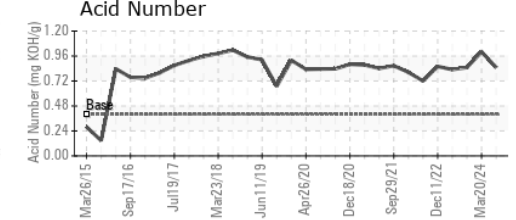
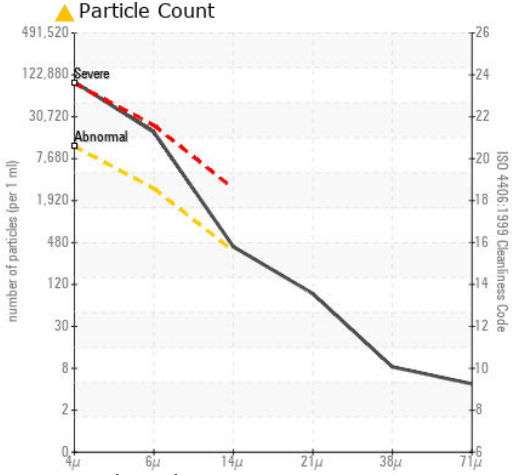
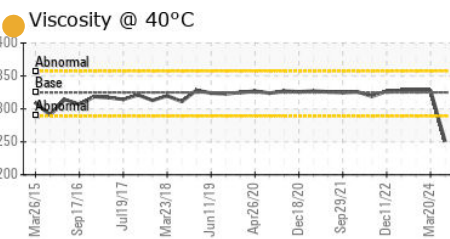
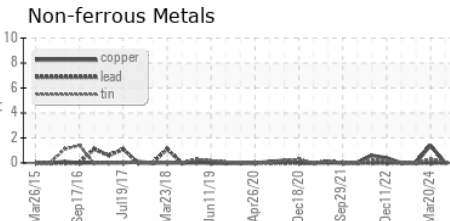
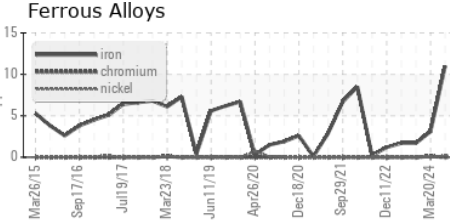
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 325 | 250.3 | 328 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0930411 Received : 10 Jun 2024
 Lab Number : 06204543 Tested : 17 Jun 2024
 Unique Number : 11072004 Diagnosed : 18 Jun 2024 - Jonathan Hester
 Test Package : IND 2 (Additional Tests: PrtCount)

HORMEL FOODS - AUSTIN
 1101 NORTH MAIN ST
 AUSTIN, MN
 US 55912
 Contact: RYAN LOWE
 rslowe@hormel.com
 T: (507)437-5674
 F: (507)437-9805

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)