



OIL ANALYSIS REPORT

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

Area
MTR [166414]
Machine Id
TINHGOV3
Component
Hydraulic System
Fluid
ESSO TERESSO ISO 32 (80 LTR)

RECOMMENDATION

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

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|------|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0862810 | WC0862789 | WC0678270 |
| Sample Date | | Client Info | | 06 May 2024 | 03 Oct 2023 | 28 Feb 2023 |
| Machine Age | mths | Client Info | | 0 | 0 | 0 |
| Oil Age | mths | Client Info | | 60 | 60 | 60 |
| Filter Age | mths | Client Info | | 6 | 6 | 24 |
| Oil Changed | | Client Info | | Not Changd | Changed | N/A |
| Filter Changed | | Client Info | | Cleaned | Cleaned | Cleaned |
| Sample Status | | | | ATTENTION | ABNORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|--------------|------|---------|
| Iron | ppm | ASTM D5185(m) | >20 | 3 | 3 | 3 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185(m) | >20 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | ▲ VLITE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |

CONTAMINATION

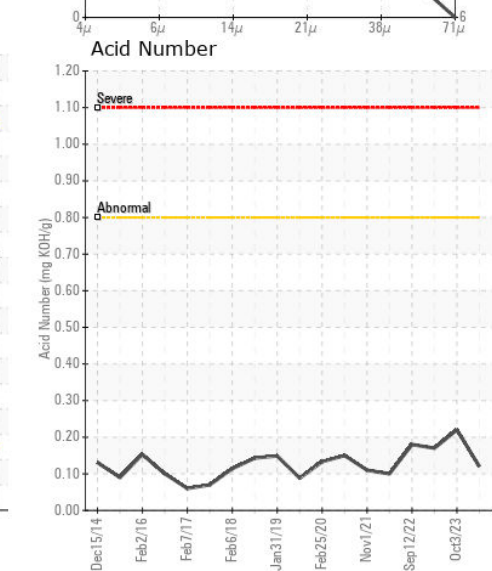
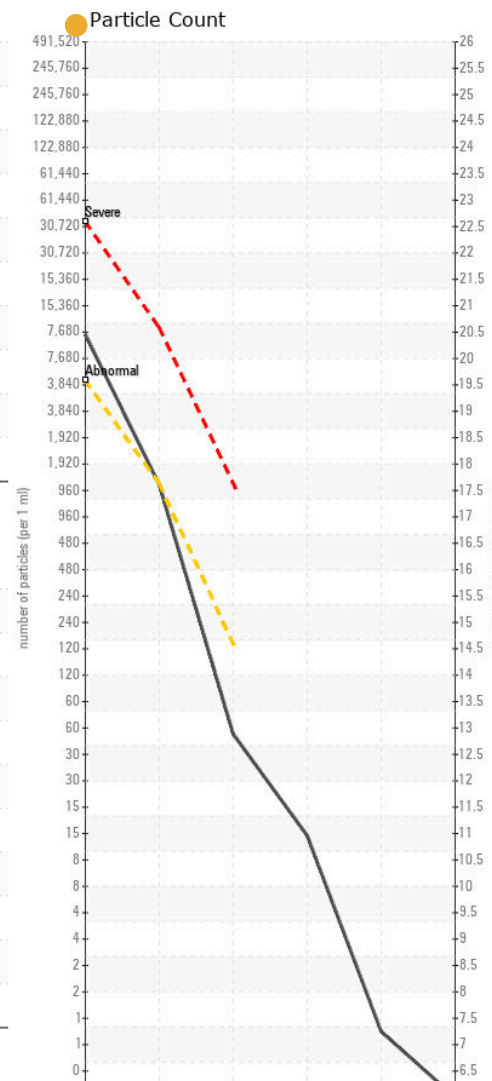
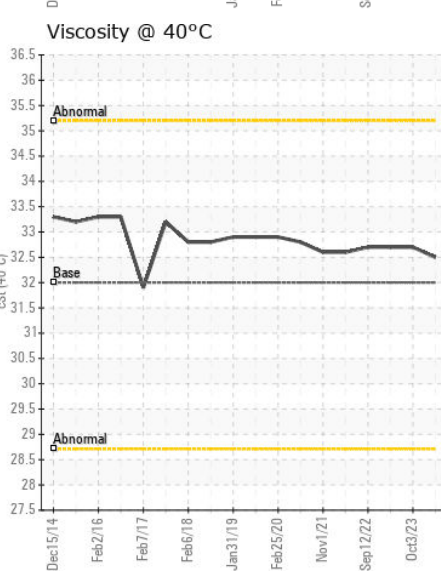
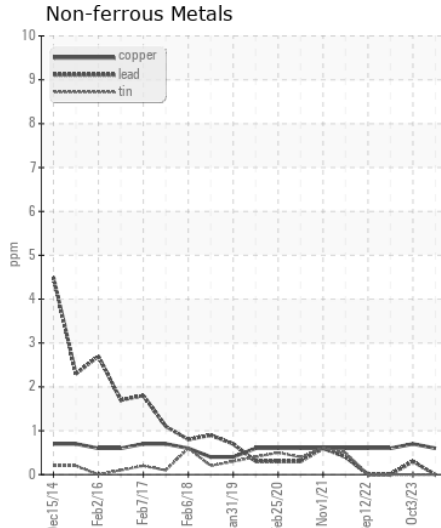
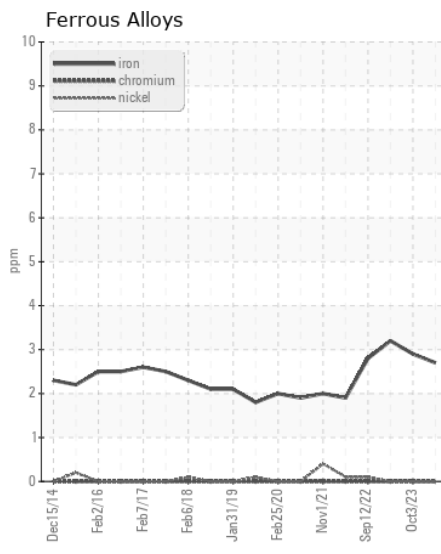
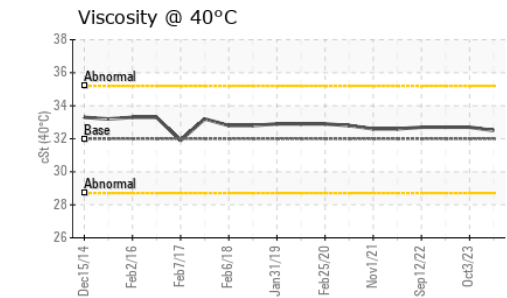
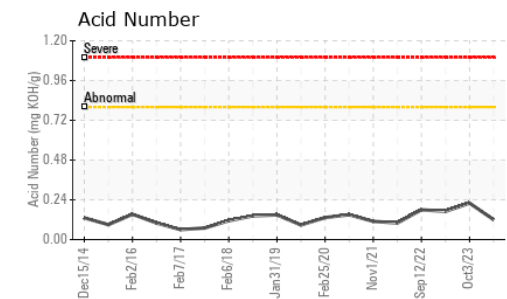
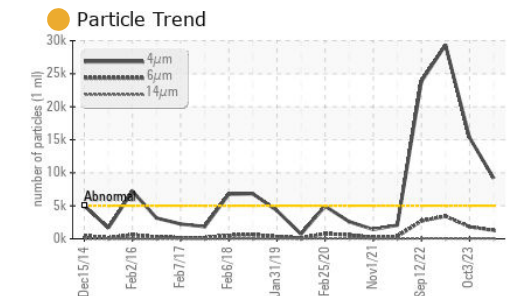
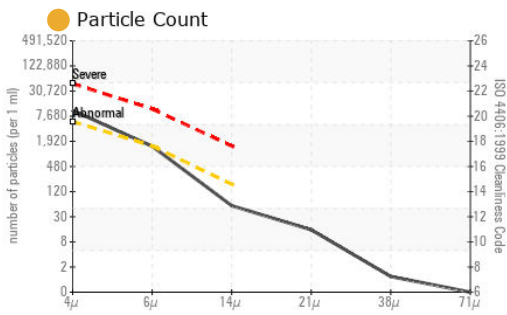
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

| | | | | | | |
|------------------|--------|---------------|-----------|-----------------|------------|------------|
| Silicon | ppm | ASTM D5185(m) | >15 | 0 | <1 | <1 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 0 | 0 |
| Water | | WC Method | >0.05 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | 9173 | ▲ 15331 | ▲ 29365 |
| Particles >6µm | | ASTM D7647 | >1300 | 1282 | ● 1812 | ▲ 3429 |
| Particles >14µm | | ASTM D7647 | >160 | 49 | 45 | 71 |
| Particles >21µm | | ASTM D7647 | >40 | 13 | 10 | 13 |
| Particles >38µm | | ASTM D7647 | >10 | 1 | 2 | 1 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 20/17/13 | ▲ 21/18/13 | ▲ 22/19/13 |
| 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* | >0.05 | 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 D5185(m) | | 0 | 0 | 0 |
| Boron | ppm | ASTM D5185(m) | | 2 | 2 | 2 |
| Barium | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Calcium | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Phosphorus | ppm | ASTM D5185(m) | | 11 | 11 | 12 |
| Zinc | ppm | ASTM D5185(m) | | 13 | 13 | 13 |
| Sulfur | ppm | ASTM D5185(m) | | 2188 | 2205 | 2255 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | | 0.12 | 0.22 | 0.17 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 32 | 32.5 | 32.7 | 32.7 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0862810
Lab Number : 02634320
Unique Number : 5775473
Test Package : IND 2 (Additional Tests: TAN Man)
Received : 09 May 2024
Tested : 10 May 2024
Diagnosed : 10 May 2024 - Wes Davis

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.