



OIL ANALYSIS REPORT

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

Area
SAB1
Machine Id
SAB1 G2 Governor
Component
Hydraulic System
Fluid
ESSO TERESSO ISO 46 (1600 LTR)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0642835 | WC0587290 | WC0599513 |
| Sample Date | | Client Info | | 27 Mar 2023 | 21 Nov 2022 | 05 Jun 2022 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| 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 | N/A |
| Sample Status | | | | ABNORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

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

CONTAMINATION

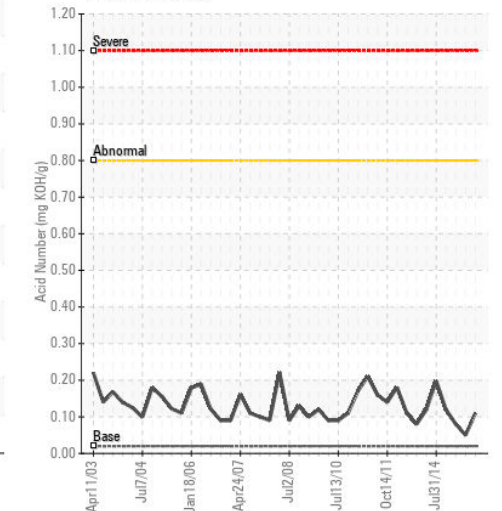
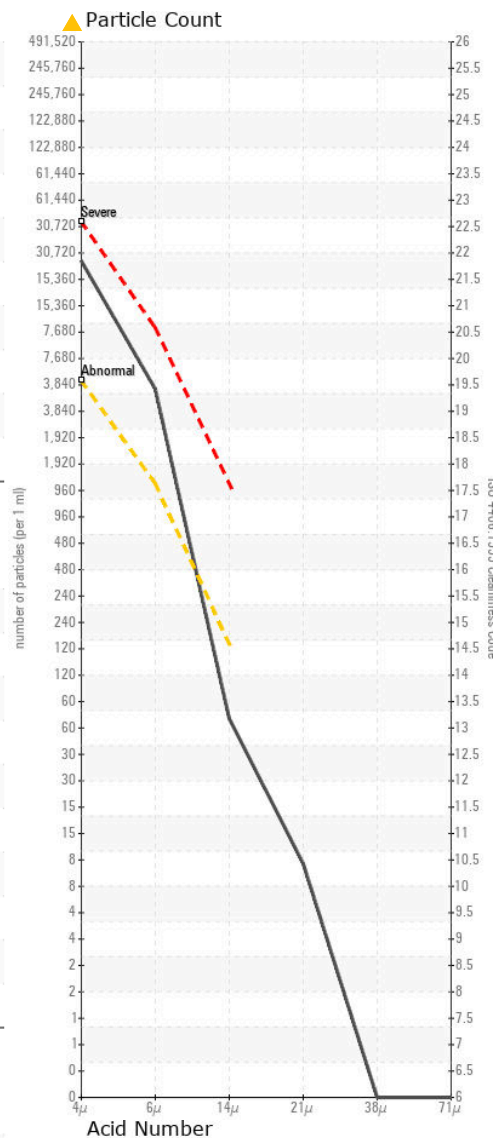
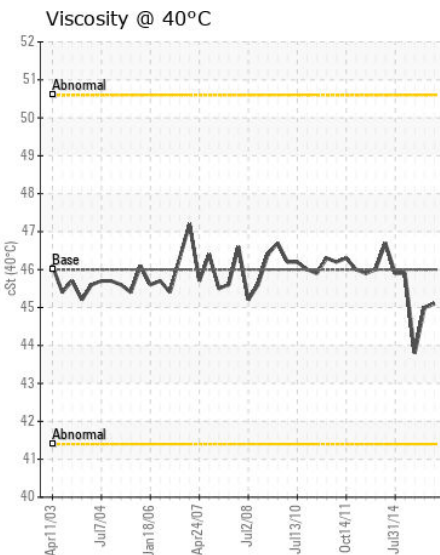
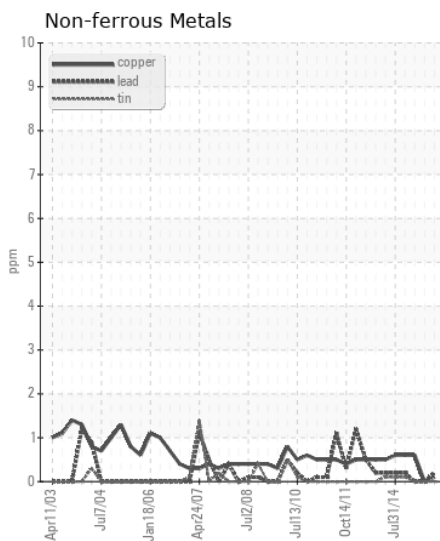
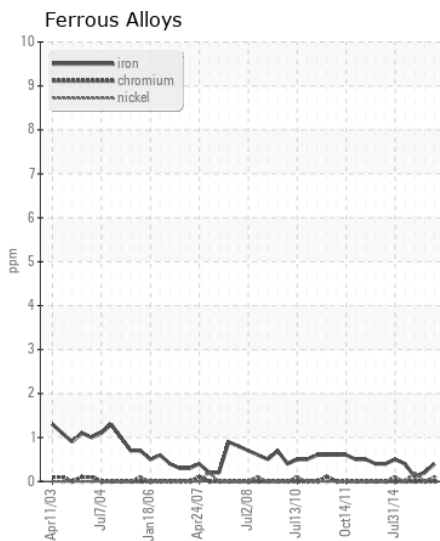
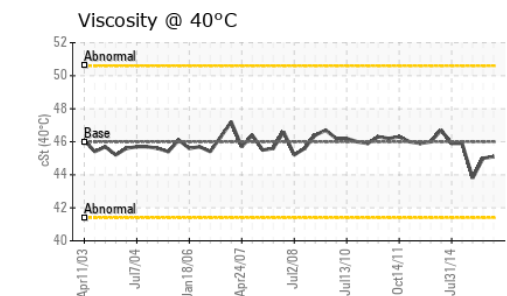
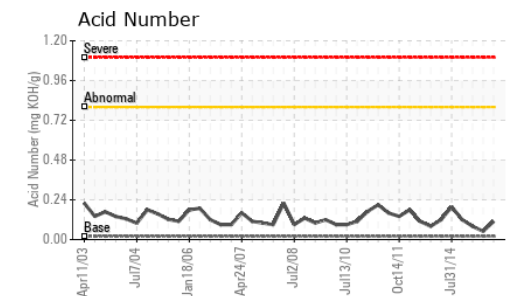
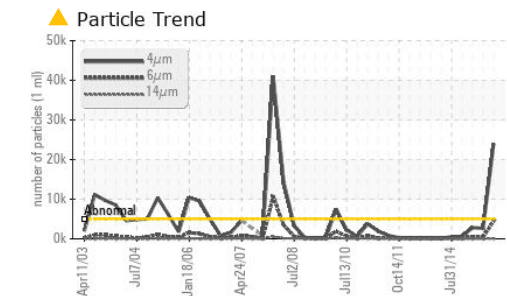
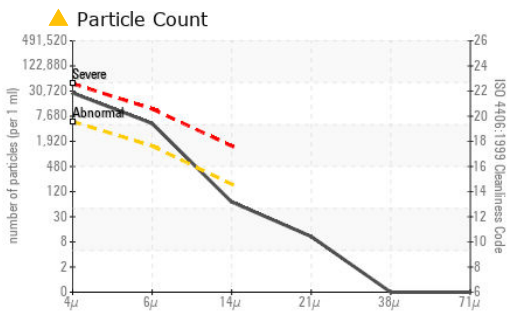
Particles >4µm are abnormally high. Particles >6µm and oil cleanliness are abnormally high. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

| | | | | | | |
|------------------|--------|---------------|-----------|-------------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >15 | <1 | <1 | <1 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | 0 | 1 |
| Water | | WC Method | >0.05 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | ▲ 23973 | 2621 | 2828 |
| Particles >6µm | | ASTM D7647 | >1300 | ▲ 4484 | 468 | 549 |
| Particles >14µm | | ASTM D7647 | >160 | 60 | 14 | 17 |
| Particles >21µm | | ASTM D7647 | >40 | 9 | 4 | 2 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | ▲ 22/19/13 | 19/16/11 | 19/16/11 |
| 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

| | | | | | | |
|------------------|----------|---------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Boron | ppm | ASTM D5185(m) | 0 | <1 | 0 | 0 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Calcium | ppm | ASTM D5185(m) | 0 | 0 | <1 | <1 |
| Phosphorus | ppm | ASTM D5185(m) | 2.4 | 7 | 1 | 3 |
| Zinc | ppm | ASTM D5185(m) | 0 | 8 | 1 | 2 |
| Sulfur | ppm | ASTM D5185(m) | | 652 | 623 | 633 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.02 | 0.11 | 0.05 | 0.08 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 46 | 45.1 | 45.0 | 43.8 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0642835 **Received** : 28 Mar 2023
Lab Number : 02548015 **Tested** : 29 Mar 2023
Unique Number : 5553025 **Diagnosed** : 29 Mar 2023 - Kevin Marson
Test Package : IND 2 (Additional Tests: TAN Man)

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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.