



OIL ANALYSIS REPORT

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

Machine Id
GENERAL ELECTRIC SLSMC G1
 Component
Circulating Turbine
 Fluid
ESSO NUTO H ISO 68 (450 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|------|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0690617 | WC0690615 | WC0690613 |
| Sample Date | | Client Info | | 30 Apr 2024 | 26 Oct 2023 | 26 Apr 2023 |
| Machine Age | mths | Client Info | | 0 | 0 | 0 |
| Oil Age | mths | Client Info | | 71 | 65 | 59 |
| Filter Age | mths | Client Info | | 1 | 1 | 1 |
| Oil Changed | | Client Info | | Not Changed | Not Changed | Not Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185(m) | >15 | <1 | <1 | 1 |
| Chromium | ppm | ASTM D5185(m) | >4 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >2 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | 2 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185(m) | | 4 | 4 | 3 |
| Copper | ppm | ASTM D5185(m) | >5 | 19 | 19 | 18 |
| Tin | ppm | ASTM D5185(m) | >5 | <1 | <1 | 1 |
| 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

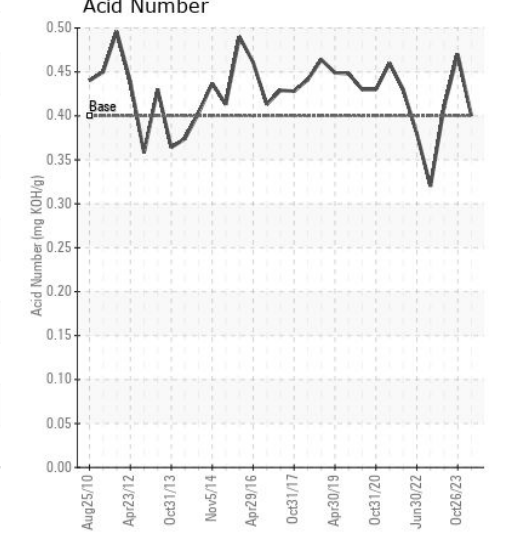
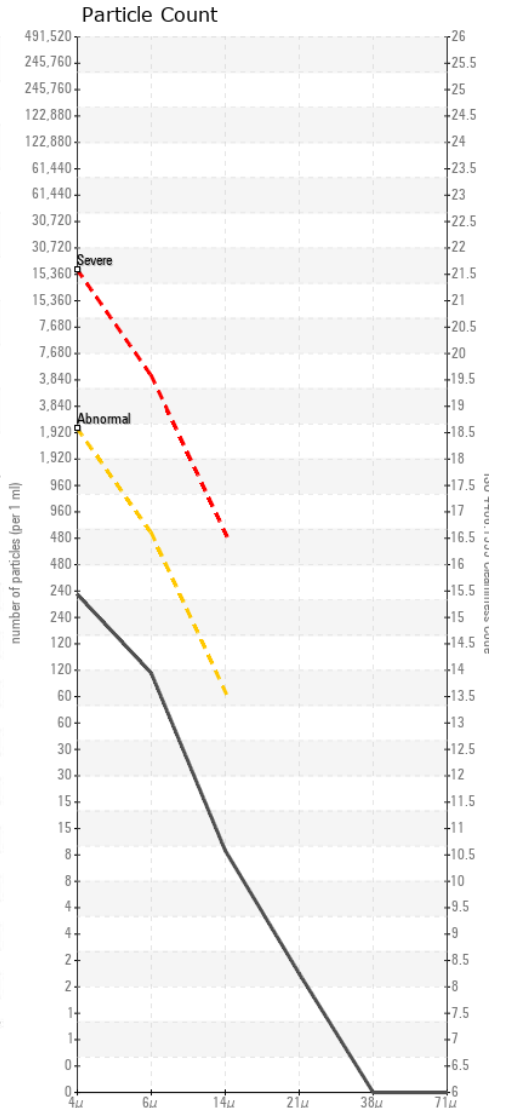
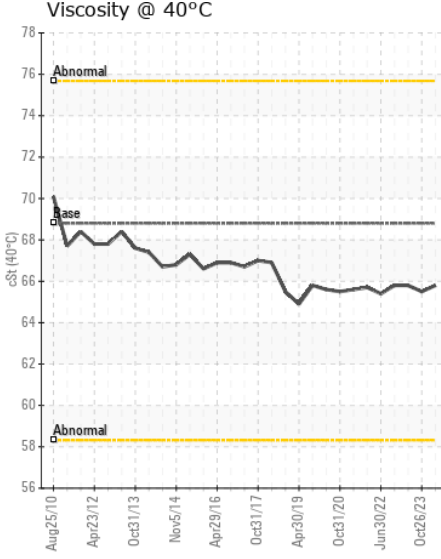
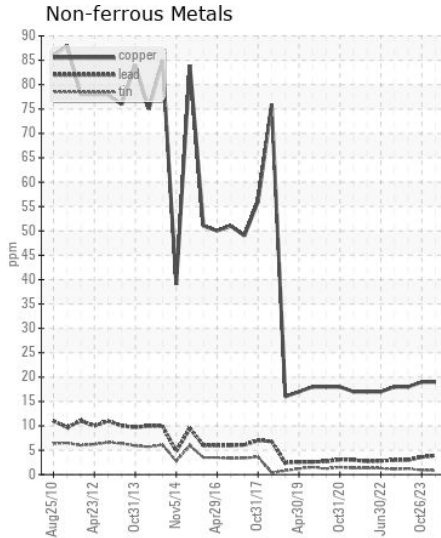
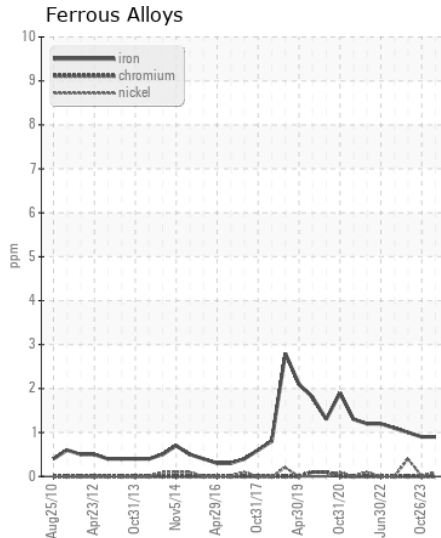
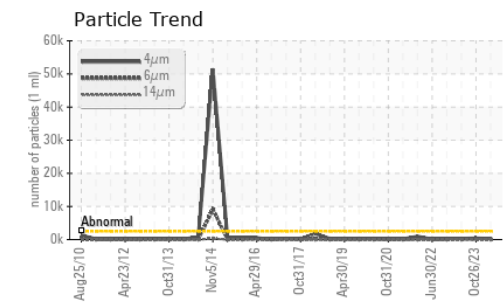
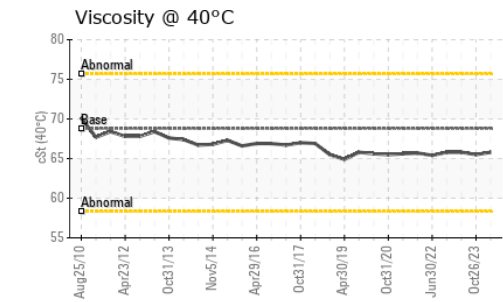
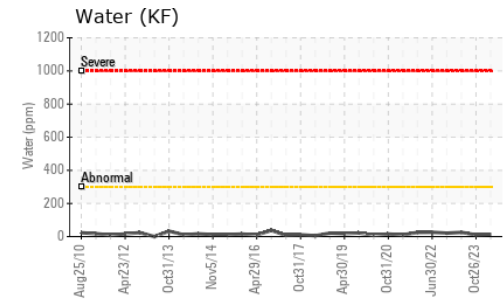
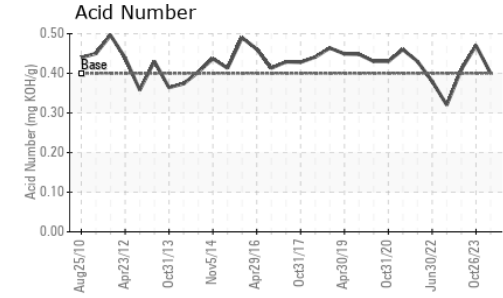
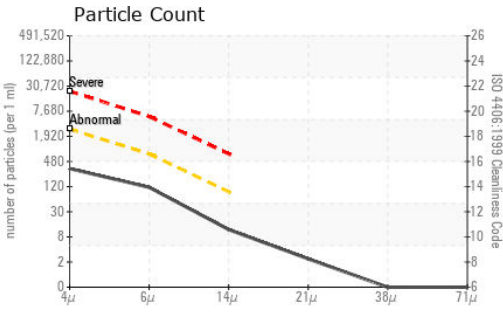
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|--------|---------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >15 | 0 | <1 | <1 |
| Potassium | ppm | ASTM D5185(m) | >20 | 9 | 0 | <1 |
| Water | % | ASTM D6304* | >0.03 | 0.001 | 0.001 | 0.003 |
| ppm Water | ppm | ASTM D6304* | >300 | 14 | 10.4 | 25.7 |
| Particles >4µm | | ASTM D7647 | >2500 | 286 | 407 | 312 |
| Particles >6µm | | ASTM D7647 | >640 | 102 | 127 | 119 |
| Particles >14µm | | ASTM D7647 | >80 | 10 | 9 | 12 |
| Particles >21µm | | ASTM D7647 | >20 | 2 | 3 | 4 |
| Particles >38µm | | ASTM D7647 | >4 | 0 | 2 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 1 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >18/16/13 | 15/14/10 | 16/14/10 | 15/14/11 |
| 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* | >0.03 | 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) | | 2 | <1 | 0 |
| Boron | ppm | ASTM D5185(m) | 0 | <1 | <1 | 0 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 5 | <1 | 0 | <1 |
| Calcium | ppm | ASTM D5185(m) | 50 | 42 | 44 | 45 |
| Phosphorus | ppm | ASTM D5185(m) | 330 | 342 | 347 | 379 |
| Zinc | ppm | ASTM D5185(m) | 420 | 408 | 426 | 422 |
| Sulfur | ppm | ASTM D5185(m) | 3100 | 5221 | 5343 | 5436 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | .40 | 0.40 | 0.47 | 0.41 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 68.8 | 65.8 | 65.5 | 65.8 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0690617
Lab Number : 02632753
Unique Number : 5773906
Test Package : IND 2

ST. LAWRENCE SEAWAY AUTHORITY
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 CA L2R 6V8
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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.