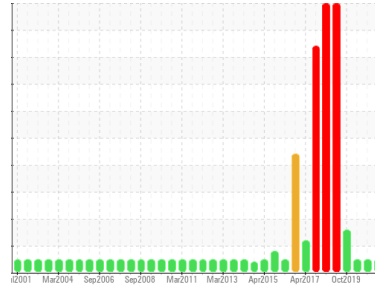




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[192029]
 Machine Id
ROP G1 GOV
 Component
Governor System
 Fluid
ESSO TERESSO ISO 68 (91 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0445353 | WC0445196 | WC0316772 |
| Sample Date | Client Info | | 02 Jun 2022 | 20 Oct 2021 | 08 Apr 2020 |
| Machine Age | hrs | Client Info | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | | N/A | N/A | N/A |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|-------------|-------------------|--------------|----------|----------|
| PQ | ASTM D8184* | | 0 | 0 | 0 |
| Iron | ppm | ASTM D5185(m) >50 | <1 | 0 | <1 |
| Chromium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185(m) >3 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185(m) >75 | 6 | 7 | <1 |
| Copper | ppm | ASTM D5185(m) >15 | 0 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) >55 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | 0 | 0 | 0 |

ADDITIVES

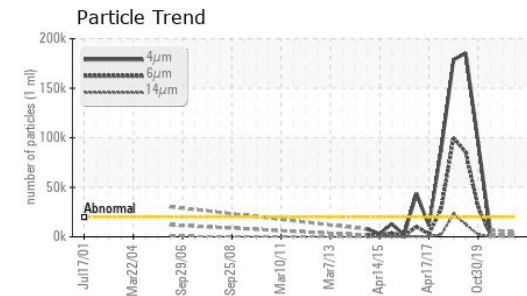
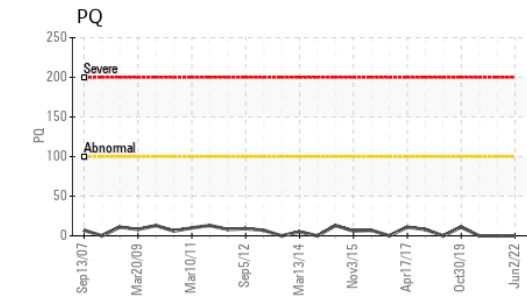
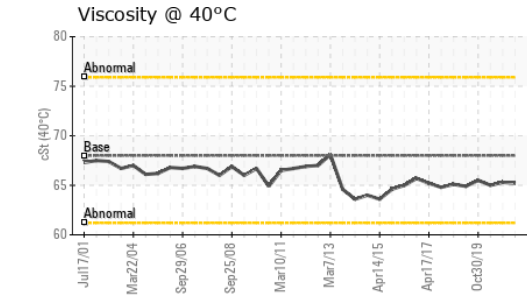
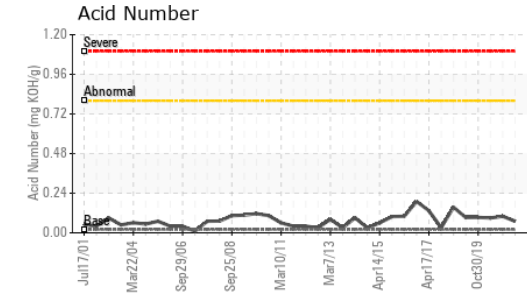
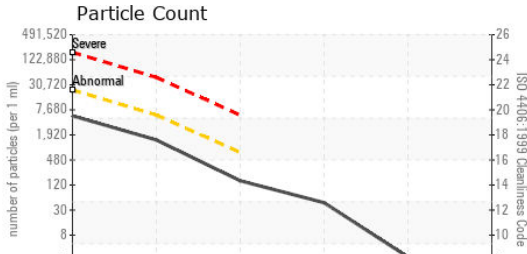
| | method | limit/base | current | history1 | history2 |
|------------|--------|--------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) 4.5 | 0 | <1 | <1 |
| Barium | ppm | ASTM D5185(m) 0.4 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) 0 | 0 | 0 | <1 |
| Calcium | ppm | ASTM D5185(m) 0 | 0 | <1 | <1 |
| Phosphorus | ppm | ASTM D5185(m) 0.7 | 21 | 22 | 1 |
| Zinc | ppm | ASTM D5185(m) 0 | 3 | 4 | <1 |
| Sulfur | ppm | ASTM D5185(m) 1315 | 1715 | 1696 | 1898 |
| Lithium | ppm | ASTM D5185(m) | <1 | <1 | <1 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >8 | <1 | <1 | 0 |
| Sodium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185(m) >20 | 0 | 1 | <1 |



OIL ANALYSIS REPORT



| FLUID CLEANLINESS | method | limit/base | current | history1 | history2 |
|-------------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | >20000 | 4814 | --- | 6601 |
| Particles >6µm | ASTM D7647 | >5000 | 1275 | --- | 2097 |
| Particles >14µm | ASTM D7647 | >640 | 134 | --- | 114 |
| Particles >21µm | ASTM D7647 | >160 | 40 | --- | 32 |
| Particles >38µm | ASTM D7647 | >40 | 2 | --- | 0 |
| Particles >71µm | ASTM D7647 | >10 | 0 | --- | 0 |
| Oil Cleanliness | ISO 4406 (c) | >21/19/16 | 19/17/14 | --- | 20/18/14 |

| FLUID DEGRADATION | method | limit/base | current | history1 | history2 |
|-------------------|---------------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g ASTM D974* | 0.02 | 0.07 | 0.10 | 0.09 |

| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|----------------|------------|--------------|----------|----------|
| White Metal | scalar Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar Visual* | NONE | NONE | NONE | NONE |
| Precipitate | scalar Visual* | NONE | NONE | NONE | NONE |
| Silt | scalar Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar Visual* | NONE | NONE | VLITE | LIGHT |
| Sand/Dirt | scalar Visual* | NONE | NONE | VLITE | NONE |
| Appearance | scalar Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar Visual* | >0.1 | NEG | NEG | NEG |
| Free Water | scalar Visual* | | NEG | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|-------------------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt ASTM D7279(m) | 68 | 65.2 | 65.3 | 65.0 |

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

Color



Bottom



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0445353
Lab Number : **02517582**
Unique Number : 5474562
Test Package : IND 2 (Additional Tests: PrtCount)

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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.