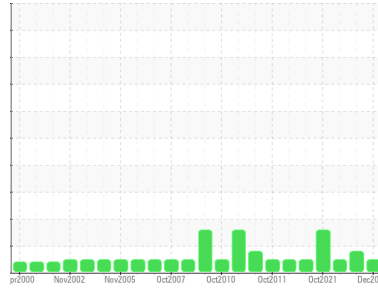


Area
Fwd Machinery Space [450231330]
Machine Id
Compressor No. 1 - Start Up Air Crank Case (S/N Sample Tag KB-63205A-S1)
Component
Air Compressor
Fluid
COMPRO 100 (4 LTR)



DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
The water content is negligible. There is no indication of any contamination in the oil.

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 | PC0076270 | PC | PC |
| Sample Date | Client Info | 05 Dec 2023 | 29 Nov 2023 | 01 Aug 2023 |
| Machine Age | hrs | Client Info | 0 | 0 |
| Oil Age | hrs | Client Info | 0 | 0 |
| Oil Changed | Client Info | N/A | N/A | N/A |
| Sample Status | | NORMAL | ABNORMAL | NORMAL |

WEAR METALS method limit/base current history1 history2

| | | | | | |
|-----------|-------------|-------------------|--------------|----|----|
| PQ | ASTM D8184* | | 0 | 0 | 0 |
| Iron | ppm | ASTM D5185(m) >50 | 2 | 3 | 3 |
| Chromium | ppm | ASTM D5185(m) >4 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) >4 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) >10 | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185(m) >20 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185(m) >40 | <1 | <1 | 1 |
| Tin | ppm | ASTM D5185(m) >5 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| 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) 0 | 0 | 0 | <1 |
| Barium | ppm | ASTM D5185(m) 0 | <1 | 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 | <1 | 0 |
| Calcium | ppm | ASTM D5185(m) 0 | <1 | <1 | <1 |
| Phosphorus | ppm | ASTM D5185(m) 50 | 11 | 14 | 25 |
| Zinc | ppm | ASTM D5185(m) 0 | <1 | 3 | 2 |
| Sulfur | ppm | ASTM D5185(m) 1500 | 2880 | 639 | 2747 |
| Lithium | ppm | ASTM D5185(m) | <1 | <1 | <1 |

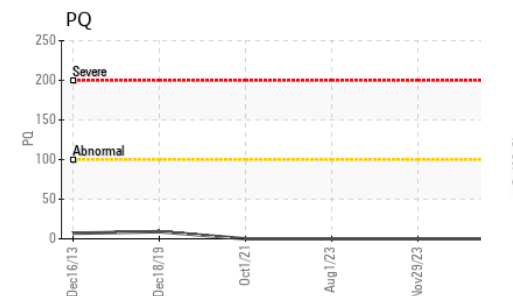
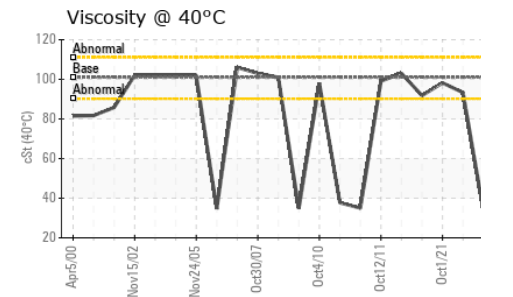
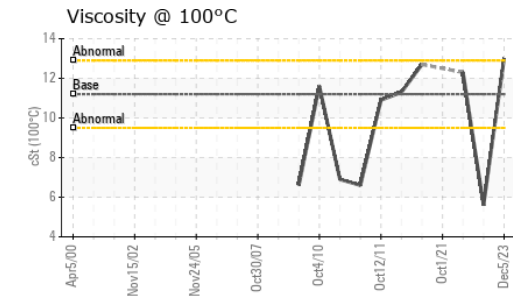
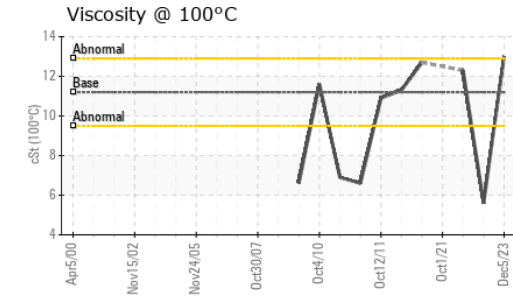
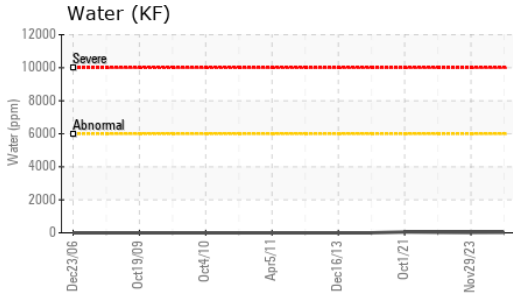
CONTAMINANTS method limit/base current history1 history2

| | | | | | |
|-----------|-----|-------------------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185(m) >25 | 0 | <1 | 0 |
| Sodium | ppm | ASTM D5185(m) | 0 | <1 | 0 |
| Potassium | ppm | ASTM D5185(m) >20 | 0 | 0 | <1 |
| Water | % | ASTM D6304* >0.6 | 0.002 | 0.002 | 0.003 |
| ppm Water | ppm | ASTM D6304* >6000 | 25 | 20 | 32.3 |

FLUID DEGRADATION method limit/base current history1 history2

| | | | | | |
|------------------|----------|----------------|-------------|------|------|
| Acid Number (AN) | mg KOH/g | ASTM D974* 0.3 | 0.12 | 0.11 | 0.14 |
|------------------|----------|----------------|-------------|------|------|

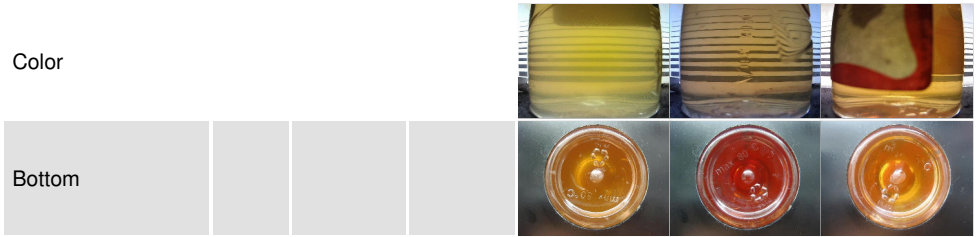
OIL ANALYSIS REPORT



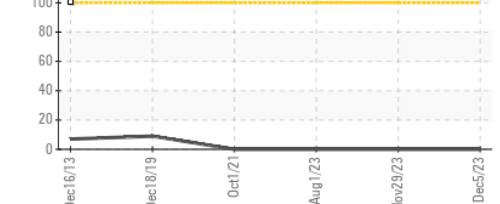
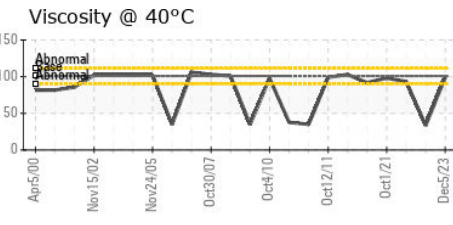
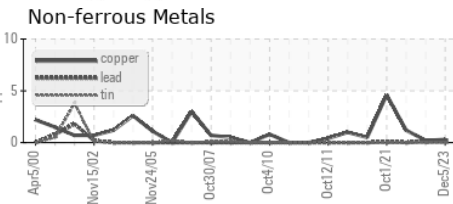
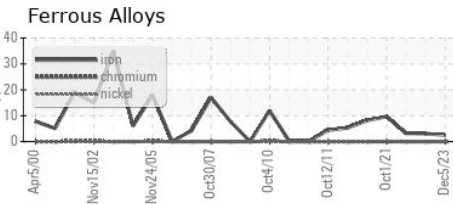
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | 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* | >0.6 | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|----------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 101.0 | 98.7 ▲ | 33.5 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 11.2 | 13.0 ▲ | 5.6 |
| Viscosity Index (VI) | Scale | ASTM D2270* | 97 | 128 | 104 |

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



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0076270 **Received** : 28 Dec 2023
Lab Number : 02605563 **Diagnosed** : 02 Jan 2024
Unique Number : 5698648 **Diagnostician** : Kevin Marson
Test Package : MAR 2 (Additional Tests: KF, KV100, TAN Man, VI)

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 St. John's, NL
 CA A1C 1B6
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 joshhynes@suncor.com
 T: (709)778-3575
 F: (709)724-2835

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.