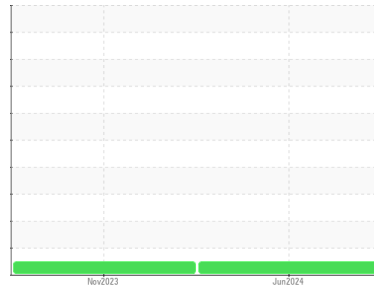




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
MANITOU 625MT FOR 421
 Component
Front Differential
 Fluid
ESSO HYDRAUL 56 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number | Client Info | | | WC0925861 | WC0865554 | --- |
| Sample Date | Client Info | | | 30 Jun 2024 | 05 Nov 2023 | --- |
| Machine Age | hrs | Client Info | | 11332 | 10290 | --- |
| Oil Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | Client Info | | | Not Chngd | Not Chngd | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water | WC Method | | >.2 | NEG | NEG | --- |

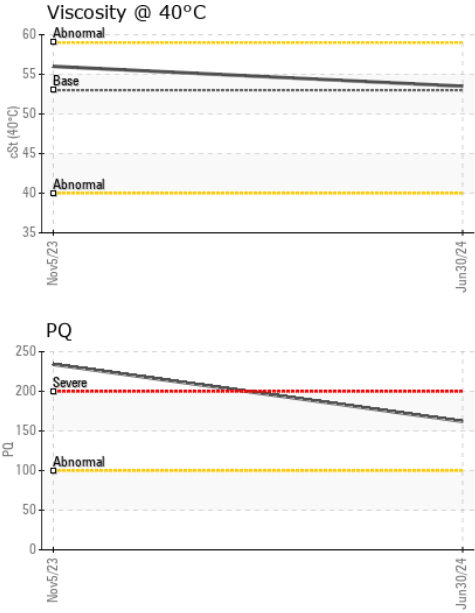
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|---------------|------------|--------------|----------|----------|
| PQ | | ASTM D8184* | | 162 | 234 | --- |
| Iron | ppm | ASTM D5185(m) | >500 | 686 | 711 | --- |
| Chromium | ppm | ASTM D5185(m) | >10 | 3 | 3 | --- |
| Nickel | ppm | ASTM D5185(m) | >10 | <1 | <1 | --- |
| Titanium | ppm | ASTM D5185(m) | | <1 | 0 | --- |
| Silver | ppm | ASTM D5185(m) | | 0 | <1 | --- |
| Aluminum | ppm | ASTM D5185(m) | >25 | 3 | 2 | --- |
| Lead | ppm | ASTM D5185(m) | >25 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185(m) | >100 | 1 | <1 | --- |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | 0 | --- |
| Antimony | ppm | ASTM D5185(m) | >5 | 0 | 0 | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | --- |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|---------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) | | 75 | 92 | --- |
| Barium | ppm | ASTM D5185(m) | | <1 | 0 | --- |
| Molybdenum | ppm | ASTM D5185(m) | | <1 | 0 | --- |
| Manganese | ppm | ASTM D5185(m) | | 5 | 4 | --- |
| Magnesium | ppm | ASTM D5185(m) | | 16 | 17 | --- |
| Calcium | ppm | ASTM D5185(m) | | 2825 | 3296 | --- |
| Phosphorus | ppm | ASTM D5185(m) | | 964 | 1109 | --- |
| Zinc | ppm | ASTM D5185(m) | | 1166 | 1367 | --- |
| Sulfur | ppm | ASTM D5185(m) | | 2750 | 3055 | --- |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|---------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >75 | 21 | 22 | --- |
| Sodium | ppm | ASTM D5185(m) | | 2 | 1 | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 0 | --- |



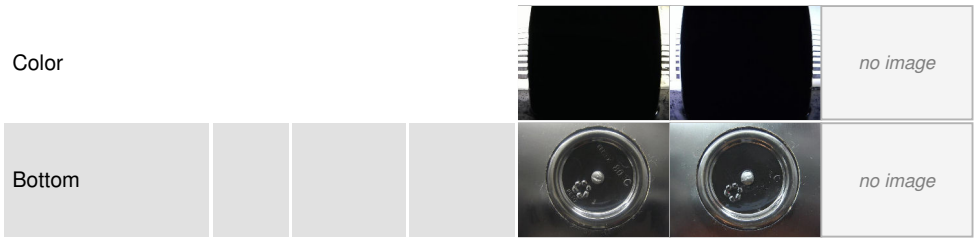
OIL ANALYSIS REPORT



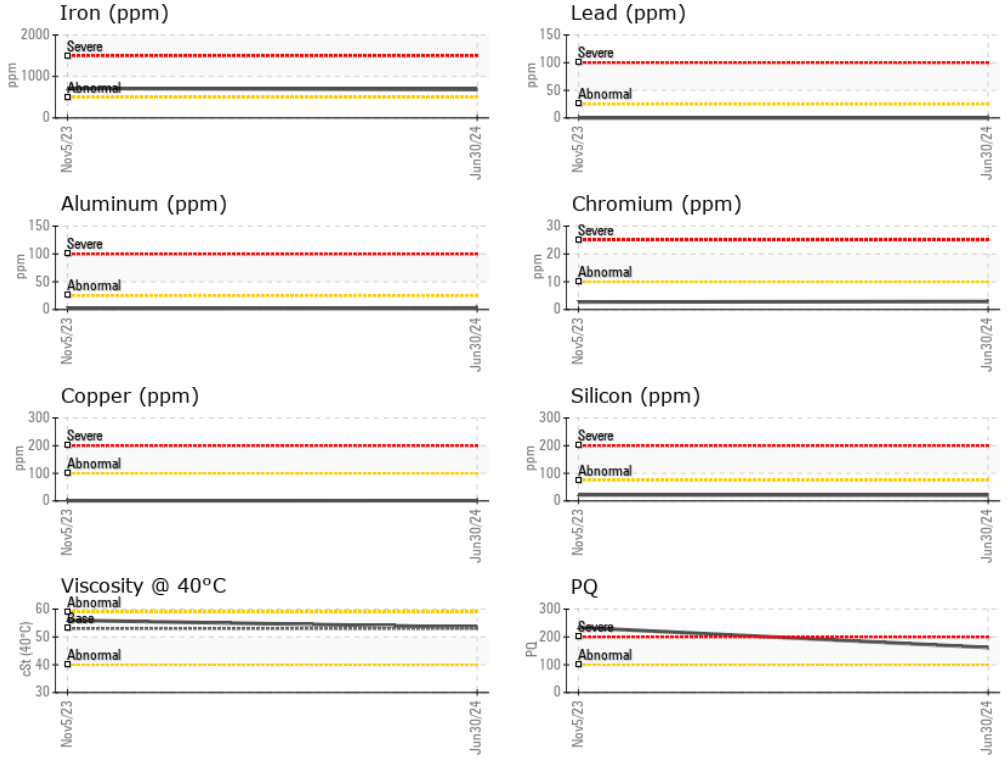
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | VLITE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | NONE |
| Silt | scalar | Visual* | NONE | VLITE | 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* | >.2 | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 53 | 53.5 | 56.0 |

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



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0925861 **Received** : 04 Jul 2024
Lab Number : **02645578** **Tested** : 05 Jul 2024
Unique Number : 5803117 **Diagnosed** : 05 Jul 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: PQ)

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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.