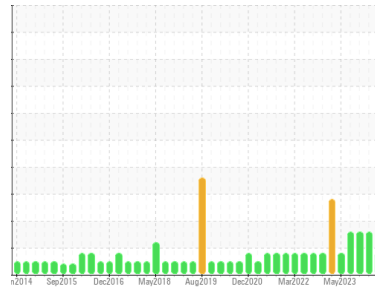




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

scellement

Machine Id
55-2833-01

Component
Hydraulic System

Fluid
MOBIL DTE 10 EXCEL 32 (300 LTR)

DIAGNOSIS

Recommendation

Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear

Une usure des chemises de cylinder, des bielles ou des tiroirs est indiquée.

Contamination

La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La teneur en eau est négligeable. La propreté du système et du fluide est acceptable.

Fluid Condition

Le AN est acceptable pour ce fluide. L'état de l'huile permet d'en prolonger l'utilisation.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0908987 | WC0901037 | WC0872703 |
| Sample Date | Client Info | | 17 Jun 2024 | 20 Feb 2024 | 23 Nov 2023 |
| 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 | | | ABNORMAL | ABNORMAL | ABNORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) >20 | 18 | ▲ 22 | ▲ 22 |
| Chromium | ppm | ASTM D5185(m) >20 | ▲ 34 | ▲ 40 | ▲ 39 |
| Nickel | ppm | ASTM D5185(m) >20 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) >20 | 10 | 14 | 13 |
| Lead | ppm | ASTM D5185(m) >20 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) >20 | 4 | 5 | 5 |
| Tin | ppm | ASTM D5185(m) >20 | 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) | <1 | <1 | <1 |
| Barium | ppm | ASTM D5185(m) | <1 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | <1 | <1 | <1 |
| Calcium | ppm | ASTM D5185(m) 120 | 100 | 107 | 106 |
| Phosphorus | ppm | ASTM D5185(m) 475 | 232 | 311 | 343 |
| Zinc | ppm | ASTM D5185(m) | 11 | 11 | 11 |
| Sulfur | ppm | ASTM D5185(m) 1275 | 779 | 991 | 989 |
| Lithium | ppm | ASTM D5185(m) | <1 | <1 | <1 |

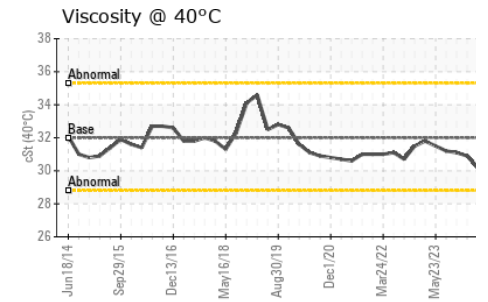
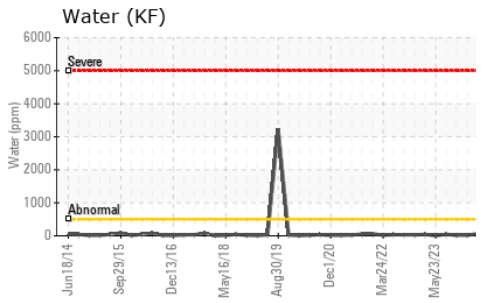
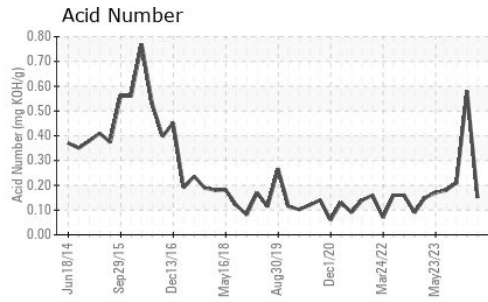
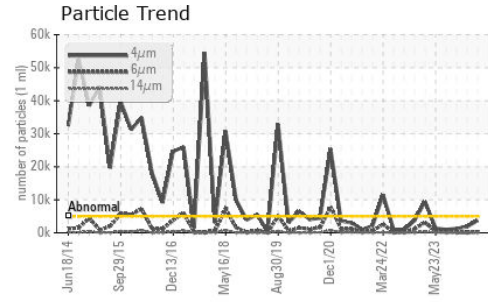
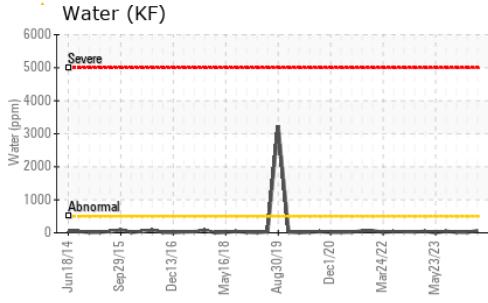
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >15 | 0 | <1 | <1 |
| Sodium | ppm | ASTM D5185(m) | 12 | 14 | 14 |
| Potassium | ppm | ASTM D5185(m) >20 | <1 | 1 | <1 |
| Water | % | ASTM D6304* >0.05 | 0.006 | 0.001 | 0.002 |
| ppm Water | ppm | ASTM D6304* >500 | 67 | 15 | 18 |

FLUID CLEANLINESS

| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | >5000 | 3741 | 1829 | 1299 |
| Particles >6µm | ASTM D7647 | >1300 | 322 | 124 | 175 |
| Particles >14µm | ASTM D7647 | >160 | 32 | 11 | 11 |
| Particles >21µm | ASTM D7647 | >40 | 9 | 4 | 3 |
| Particles >38µm | ASTM D7647 | >10 | 1 | 0 | 0 |
| Particles >71µm | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) | >19/17/14 | 19/16/12 | 18/14/11 | 17/15/11 |

OIL ANALYSIS REPORT

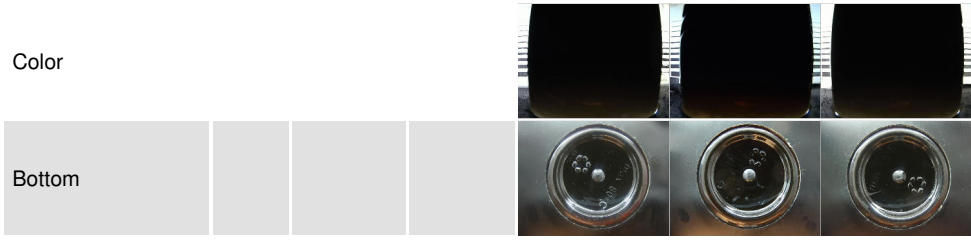


| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974* | | 0.15 | 0.58 | 0.21 |

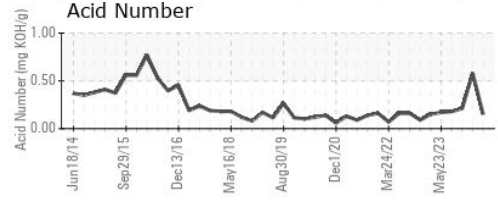
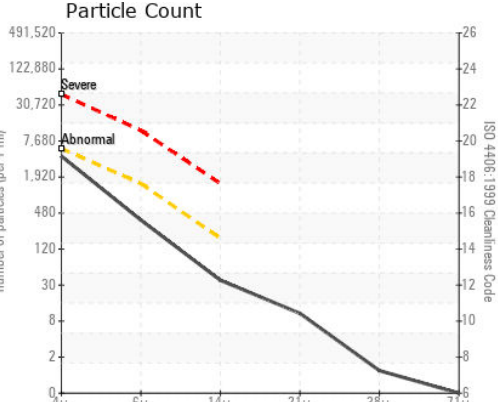
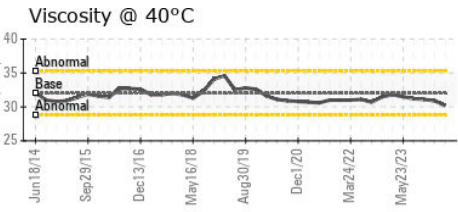
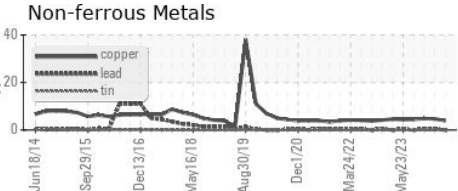
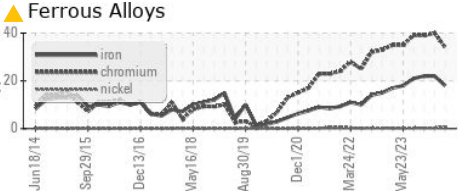
| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Precipitate | scalar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

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|---------------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 32 | 30.2 | 30.9 | 31.1 |

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



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0908987 **Received** : 20 Jun 2024
Lab Number : **02643197** **Tested** : 21 Jun 2024
Unique Number : 5800736 **Diagnosed** : 21 Jun 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: KF)

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.

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