



OIL ANALYSIS REPORT

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



Machine Id
Mack T139 (S/N 1M1AN4GY7KM003028)
 Component
Diesel Engine
 Fluid
INVENTORY EXPRESS 10W30 (44 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | WC0906426 | WC0790243 | --- |
| Sample Date | | Client Info | | 10 May 2024 | 11 Mar 2023 | --- |
| Machine Age | kms | Client Info | | 360574 | 328048 | --- |
| Oil Age | kms | Client Info | | 32526 | 0 | --- |
| Filter Age | kms | Client Info | | 32526 | 0 | --- |
| Oil Changed | | Client Info | | Changed | Changed | --- |
| Filter Changed | | Client Info | | Changed | Changed | --- |
| Sample Status | | | | NORMAL | ABNORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|-----|
| Iron | ppm | ASTM D5185(m) | >120 | 59 | 41 | --- |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185(m) | >5 | 1 | <1 | --- |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | <1 | --- |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185(m) | >20 | 5 | 5 | --- |
| Lead | ppm | ASTM D5185(m) | >40 | <1 | 2 | --- |
| Copper | ppm | ASTM D5185(m) | >330 | 16 | 13 | --- |
| Tin | ppm | ASTM D5185(m) | >15 | <1 | 1 | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | --- |

CONTAMINATION

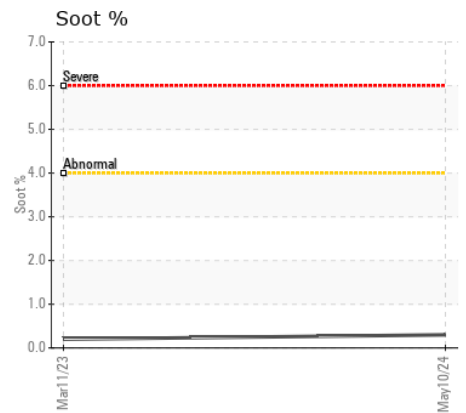
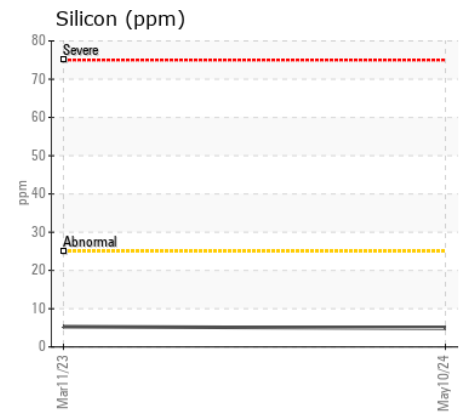
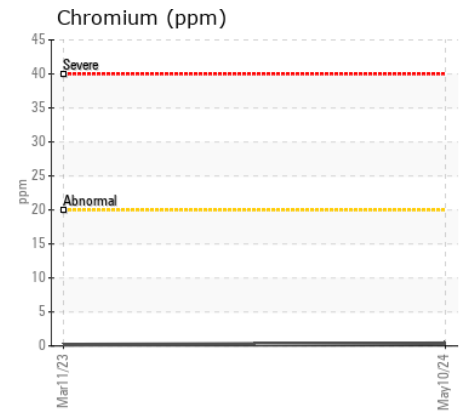
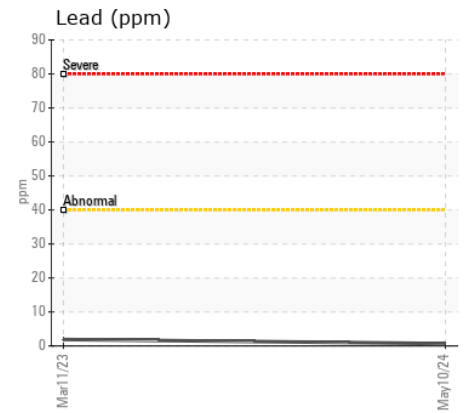
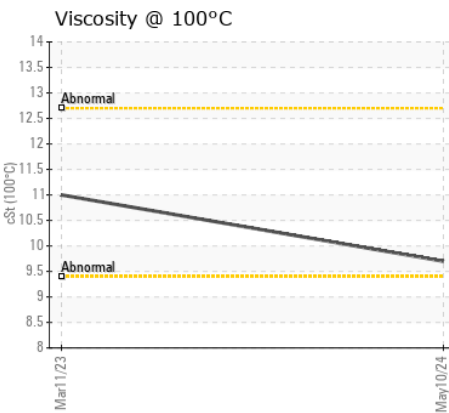
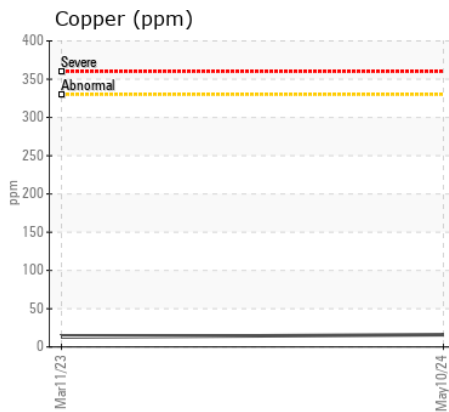
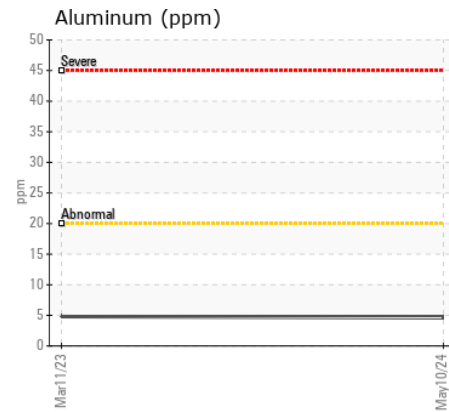
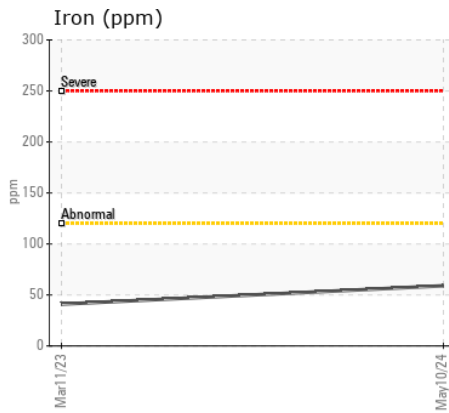
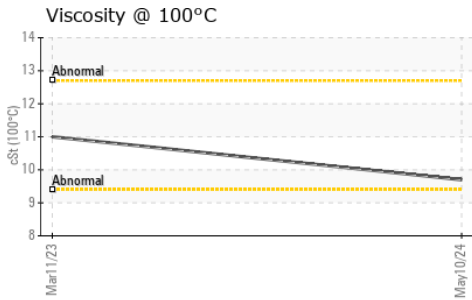
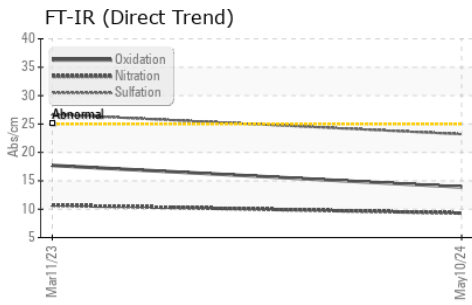
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|-----|
| Silicon | ppm | ASTM D5185(m) | >25 | 5 | 5 | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | 3 | 2 | --- |
| Fuel | | WC Method | >3.0 | <1.0 | 1.4 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | ASTM D7844* | >4 | 0.3 | 0.2 | --- |
| Nitration | Abs/cm | ASTM D7624* | >20 | 9.3 | 10.7 | --- |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 23.2 | 26.7 | --- |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | --- |

FLUID CONDITION

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

| | | | | | | |
|--------------|----------|---------------|-----|--------------|--------|-----|
| Sodium | ppm | ASTM D5185(m) | | 23 | 9 | --- |
| Boron | ppm | ASTM D5185(m) | | 21 | 14 | --- |
| Barium | ppm | ASTM D5185(m) | | <1 | <1 | --- |
| Molybdenum | ppm | ASTM D5185(m) | | 80 | 84 | --- |
| Manganese | ppm | ASTM D5185(m) | | 1 | <1 | --- |
| Magnesium | ppm | ASTM D5185(m) | | 290 | 47 | --- |
| Calcium | ppm | ASTM D5185(m) | | 1534 | 2180 | --- |
| Phosphorus | ppm | ASTM D5185(m) | | 722 | 962 | --- |
| Zinc | ppm | ASTM D5185(m) | | 884 | 1044 | --- |
| Sulfur | ppm | ASTM D5185(m) | | 2650 | 3096 | --- |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 13.9 | 17.7 | --- |
| Visc @ 100°C | cSt | ASTM D7279(m) | | 9.7 | ▲ 11.0 | --- |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0906426 **Received** : 30 May 2024
Lab Number : 02638988 **Tested** : 30 May 2024
Unique Number : 5788150 **Diagnosed** : 30 May 2024 - Wes Davis
Test Package : MOB 1

Zavcor Trucking Limited
 3650 Eagle Street
 Stevensville, ON
 CA L0S 1S0
 Contact: Stephanie Wackett
 stephw@zavcor.com
 T: x:
 F: (905)382-2555

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.