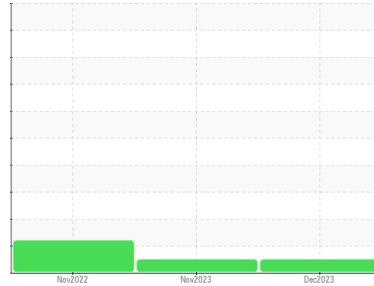




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
ISUZU 150-6

Component
Diesel Engine

Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

Il n'y a aucun indice de contamination dans l'huile.

Fluid Condition

L'état de l'huile est acceptable pour la durée de service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0797589 | WC0792070 | WC0749176 |
| Sample Date | Client Info | | 20 Dec 2023 | 28 Nov 2023 | 30 Nov 2022 |
| Machine Age | hrs | Client Info | 9649 | 9122 | 8396 |
| Oil Age | hrs | Client Info | 527 | 484 | 1 |
| Oil Changed | Client Info | | Changed | Changed | Changed |
| Sample Status | | | NORMAL | NORMAL | ABNORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | WC Method | >0.2 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|--------------|----------|----|
| Iron | ppm | ASTM D5185(m) | >100 | 4 | 4 | 3 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >4 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 2 | 1 | 1 |
| Lead | ppm | ASTM D5185(m) | >40 | 2 | 4 | 0 |
| Copper | ppm | ASTM D5185(m) | >330 | <1 | 2 | <1 |
| Tin | ppm | ASTM D5185(m) | >15 | 1 | 2 | <1 |
| 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 | <1 | 2 | 1 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 60 | 59 | 60 | 57 |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 1010 | 1012 | 987 | 953 |
| Calcium | ppm | ASTM D5185(m) | 1070 | 1075 | 1088 | 1058 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 1023 | 1009 | 1071 |
| Zinc | ppm | ASTM D5185(m) | 1270 | 1189 | 1178 | 1161 |
| Sulfur | ppm | ASTM D5185(m) | 2060 | 2678 | 2521 | 2648 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |

CONTAMINANTS

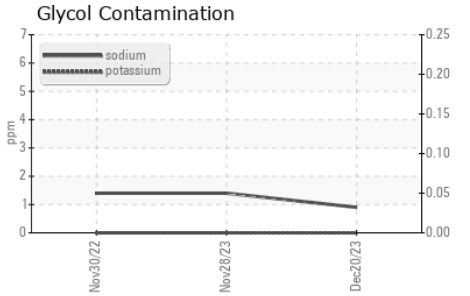
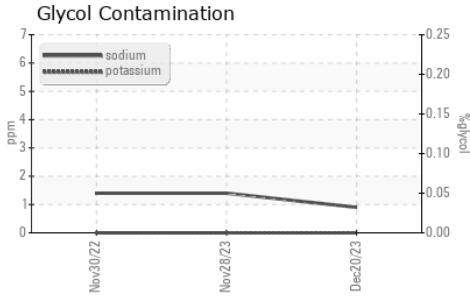
| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|--------------|----------|-----|
| Silicon | ppm | ASTM D5185(m) | >25 | 7 | 6 | 6 |
| Sodium | ppm | ASTM D5185(m) | | <1 | 1 | 1 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Glycol | % | ASTM D7922* | | NEG | NEG | NEG |

INFRA-RED

| | method | limit/base | current | history1 | history2 | |
|-----------|----------|-------------|---------|-------------|----------|------|
| Soot % | % | ASTM D7844* | >3 | 0 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 6.0 | 5.6 | 3.5 |
| Sulfation | Abs./1mm | ASTM D7415* | >30 | 18.8 | 18.5 | 15.3 |



OIL ANALYSIS REPORT

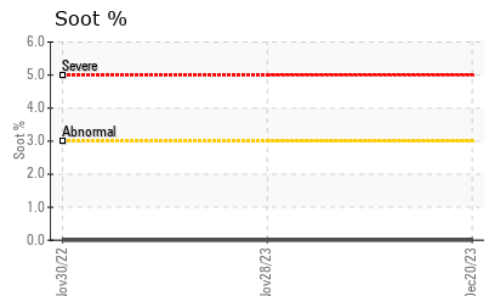
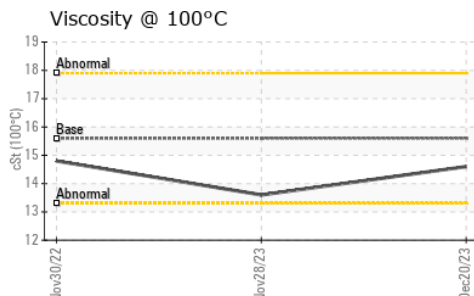
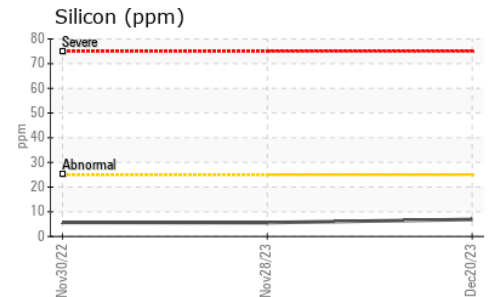
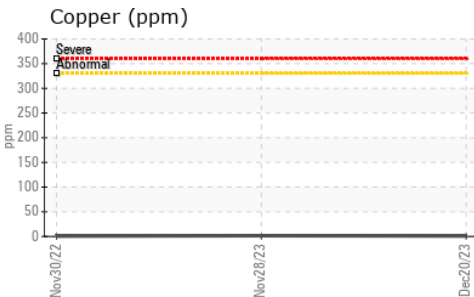
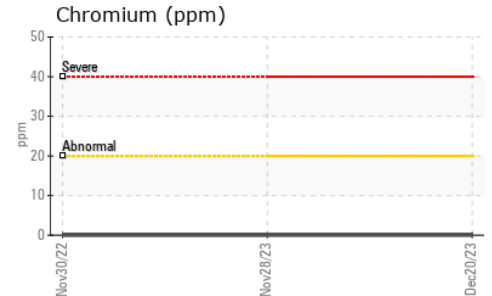
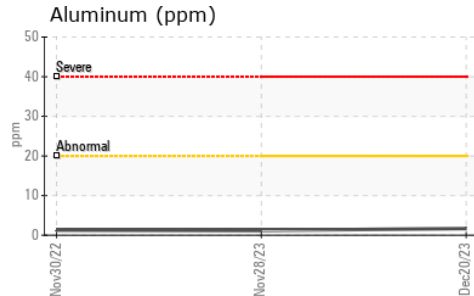
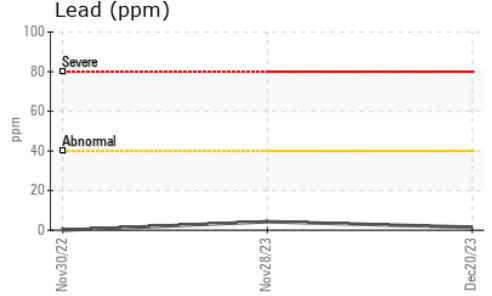
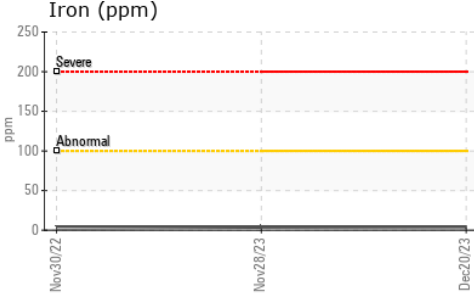


| FLUID DEGRADATION | method | limit/base | current | history1 | history2 | |
|-------------------|----------|-------------|---------|-------------|----------|-----|
| Oxidation | Abs./1mm | ASTM D7414* | >25 | 14.5 | 14.3 | 8.5 |

| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|------------|----------|-----|
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|---------------|---------|-------------|----------|------|
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.6 | 14.6 | 13.6 | 14.8 |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0797589 **Received** : 12 Jan 2024
Lab Number : **02608354** **Diagnosed** : 15 Jan 2024
Unique Number : 5709440 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol)

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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.