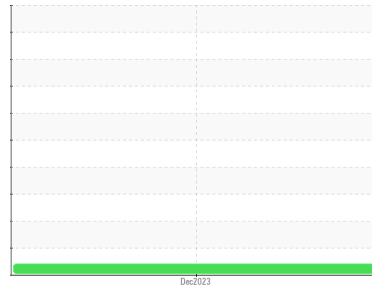




OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id
TOYOTA LANDCRUISER FMC043

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

Metal levels are typical for a components first oil change.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

▲ Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | WC0892411 | --- | --- |
| Sample Date | Client Info | | 30 Dec 2023 | --- | --- |
| Machine Age | hrs | Client Info | 254 | --- | --- |
| Oil Age | hrs | Client Info | 254 | --- | --- |
| Oil Changed | Client Info | | Changed | --- | --- |
| Sample Status | | | ABNORMAL | --- | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2 | NEG | --- | --- |
| Glycol | WC Method | | NEG | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|--------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) >100 | 38 | --- | --- |
| Chromium | ppm | ASTM D5185(m) >20 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185(m) >4 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Silver | ppm | ASTM D5185(m) >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) >20 | 5 | --- | --- |
| Lead | ppm | ASTM D5185(m) >40 | 2 | --- | --- |
| Copper | ppm | ASTM D5185(m) >330 | 112 | --- | --- |
| Tin | ppm | ASTM D5185(m) >15 | 5 | --- | --- |
| Antimony | ppm | ASTM D5185(m) | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Beryllium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185(m) | 0 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|--------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) 250 | 36 | --- | --- |
| Barium | ppm | ASTM D5185(m) 10 | 2 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) 100 | 96 | --- | --- |
| Manganese | ppm | ASTM D5185(m) | 2 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) 450 | 47 | --- | --- |
| Calcium | ppm | ASTM D5185(m) 3000 | 3979 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) 1150 | 1053 | --- | --- |
| Zinc | ppm | ASTM D5185(m) 1350 | 1245 | --- | --- |
| Sulfur | ppm | ASTM D5185(m) 4250 | 3653 | --- | --- |
| Lithium | ppm | ASTM D5185(m) | <1 | --- | --- |

CONTAMINANTS

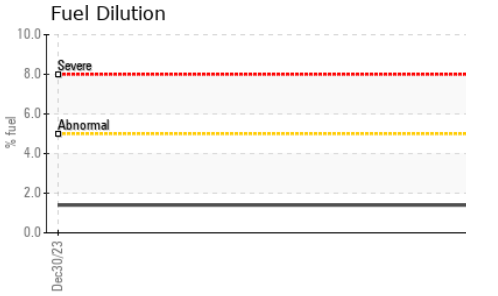
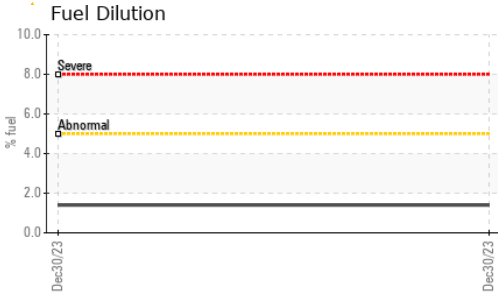
| | method | limit/base | current | history1 | history2 |
|-----------|--------|--------------------|------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >25 | 112 | --- | --- |
| Sodium | ppm | ASTM D5185(m) >158 | 5 | --- | --- |
| Potassium | ppm | ASTM D5185(m) >20 | 0 | --- | --- |
| Fuel | % | ASTM D7593* >5 | 1.4 | --- | --- |

INFRA-RED

| | method | limit/base | current | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot % | % | ASTM D7844* >3 | 0.2 | --- | --- |
| Nitration | Abs/cm | ASTM D7624* >20 | 6.5 | --- | --- |
| Sulfation | Abs./1mm | ASTM D7415* >30 | 17.1 | --- | --- |



OIL ANALYSIS REPORT



FLUID DEGRADATION

| method | limit/base | current | history1 | history2 | |
|-----------|----------------------|---------|----------|----------|-----|
| Oxidation | Abs./1mm ASTM D7414* | >25 | 8.7 | --- | --- |

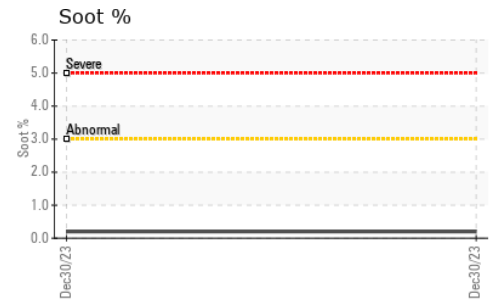
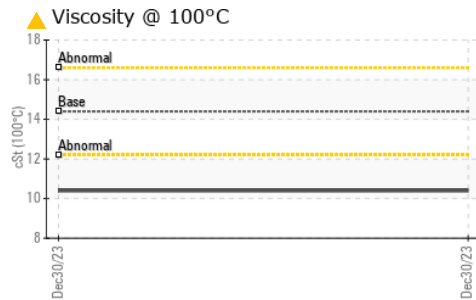
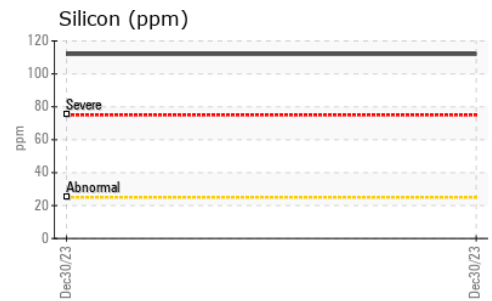
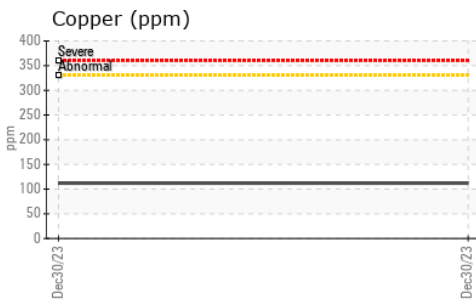
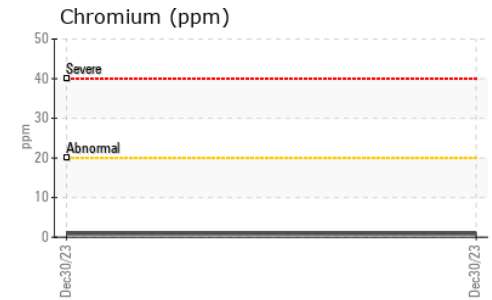
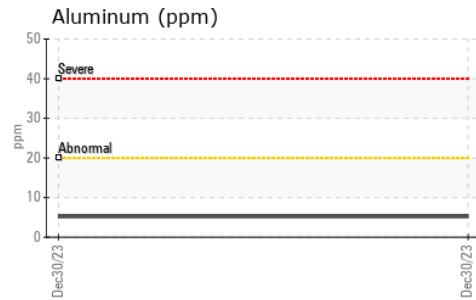
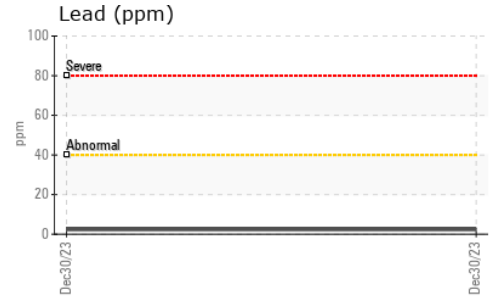
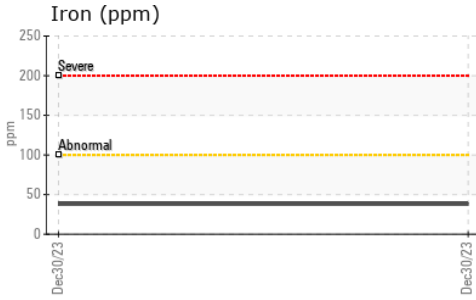
VISUAL

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

FLUID PROPERTIES

| method | limit/base | current | history1 | history2 | |
|--------------|-------------------|---------|----------|----------|-----|
| Visc @ 100°C | cSt ASTM D7279(m) | 14.4 | ▲ 10.4 | --- | --- |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0892411 **Received** : 04 Jan 2024
Lab Number : 02606506 **Diagnosed** : 05 Jan 2024
Unique Number : 5707592 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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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.