



Area
SHARP BUS LINES [1083]
Machine Id
IC 1083
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)



DIAGNOSIS

Recommendation
We advise that you check the fuel injection system. The oil is near the end of its useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition
Calcium ppm levels are abnormally low. Visc @ 100°C is abnormally low. Visc @ 40°C is abnormally low. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0081466	---	---
Sample Date	Client Info	18 Jul 2023	---	---
Machine Age	kms Client Info	228769	---	---
Oil Age	kms Client Info	12229	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		SEVERE	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	17	---	---
Chromium	ppm ASTM D5185(m) >20	<1	---	---
Nickel	ppm ASTM D5185(m) >4	<1	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m) >3	0	---	---
Aluminum	ppm ASTM D5185(m) >20	2	---	---
Lead	ppm ASTM D5185(m) >40	<1	---	---
Copper	ppm ASTM D5185(m) >330	<1	---	---
Tin	ppm ASTM D5185(m) >15	0	---	---
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	1	---	---
Barium	ppm ASTM D5185(m) 10	0	---	---
Molybdenum	ppm ASTM D5185(m) 100	48	---	---
Manganese	ppm ASTM D5185(m)	<1	---	---
Magnesium	ppm ASTM D5185(m) 450	767	---	---
Calcium	ppm ASTM D5185(m) 3000	797	---	---
Phosphorus	ppm ASTM D5185(m) 1150	844	---	---
Zinc	ppm ASTM D5185(m) 1350	936	---	---
Sulfur	ppm ASTM D5185(m) 4250	2084	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	5	---	---
Sodium	ppm ASTM D5185(m) >158	11	---	---
Potassium	ppm ASTM D5185(m) >20	2	---	---
Fuel	% ASTM D7593* >5	18.1	---	---

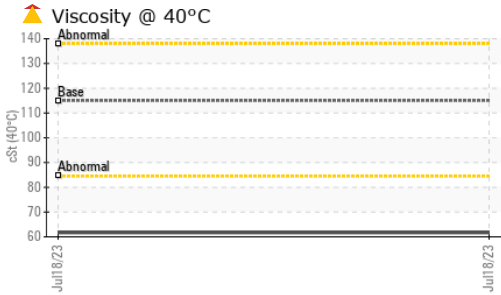
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0.9	---	---
Nitration	Abs/cm ASTM D7624* >20	8.6	---	---
Sulfation	Abs/.1mm ASTM D7415* >30	21.5	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	15.0	---	---

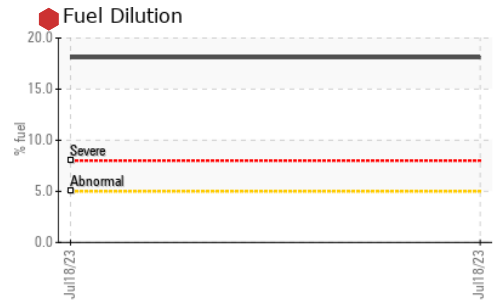
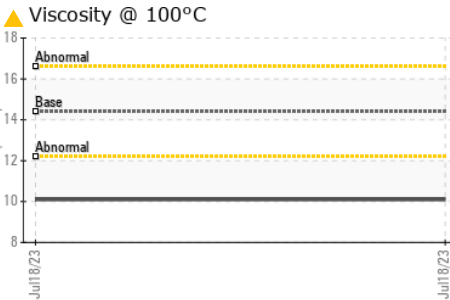
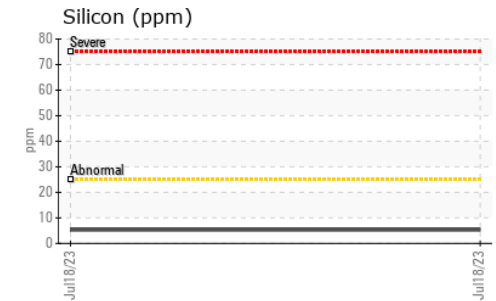
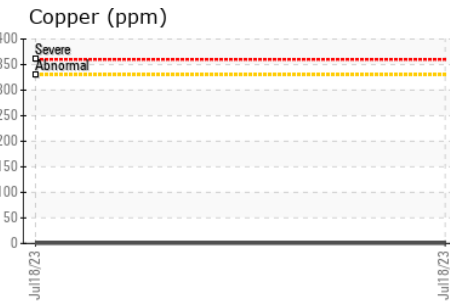
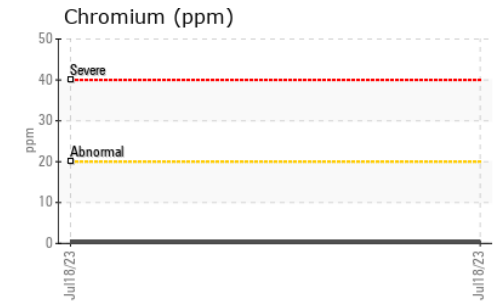
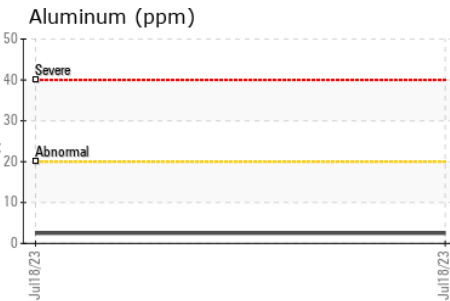
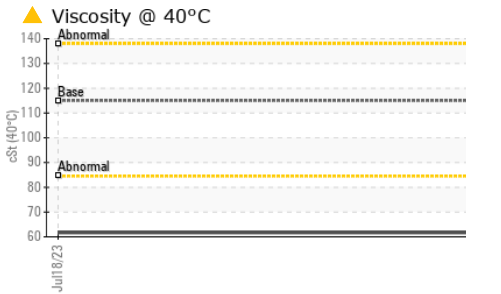
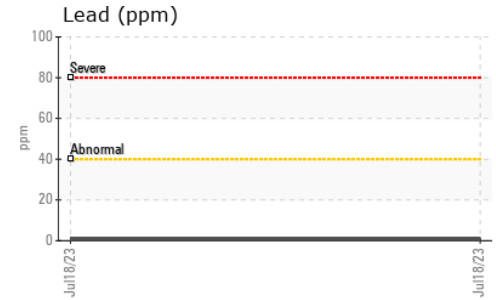
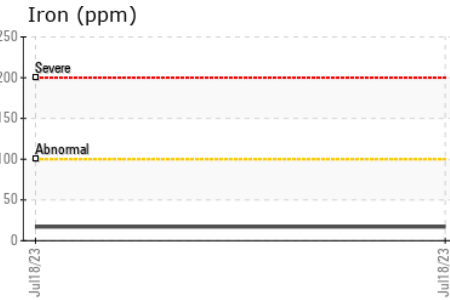
OIL ANALYSIS REPORT



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 @ 40°C	cSt	ASTM D7279(m)	115	▲ 61.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	▲ 10.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	150	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081466 **Received** : 23 Aug 2023
Lab Number : **02577634** **Diagnosed** : 24 Aug 2023
Unique Number : 5630694 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

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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.