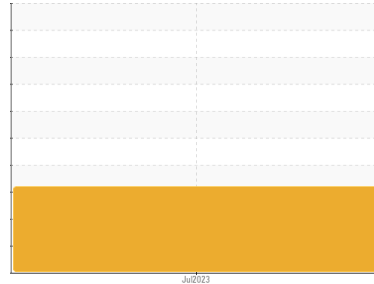




Machine Id
1997 FL80

Component
Diesel Engine

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



DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. 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

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	PC0044983	---	---
Sample Date	Client Info	04 Jul 2023	---	---
Machine Age	hrs	Client Info	11367	---
Oil Age	hrs	Client Info	185	---
Oil Changed	Client Info	Changed	---	---
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) >90	9	---
Chromium	ppm	ASTM D5185(m) >20	<1	---
Nickel	ppm	ASTM D5185(m) >2	0	---
Titanium	ppm	ASTM D5185(m) >2	0	---
Silver	ppm	ASTM D5185(m) >2	0	---
Aluminum	ppm	ASTM D5185(m) >20	2	---
Lead	ppm	ASTM D5185(m) >40	2	---
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	9	---
Barium	ppm	ASTM D5185(m) 10	0	---
Molybdenum	ppm	ASTM D5185(m) 100	218	---
Manganese	ppm	ASTM D5185(m)	<1	---
Magnesium	ppm	ASTM D5185(m) 450	772	---
Calcium	ppm	ASTM D5185(m) 3000	938	---
Phosphorus	ppm	ASTM D5185(m) 1150	1026	---
Zinc	ppm	ASTM D5185(m) 1350	1032	---
Sulfur	ppm	ASTM D5185(m) 4250	2445	---
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	1	---
Potassium	ppm	ASTM D5185(m) >20	1	---
Fuel	%	ASTM D7593* >3.0	22.2	---

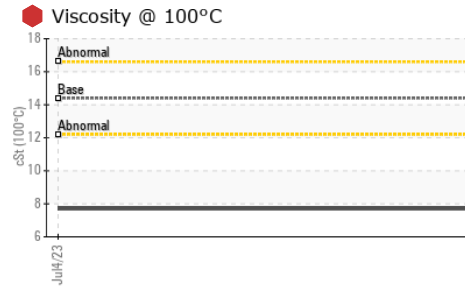
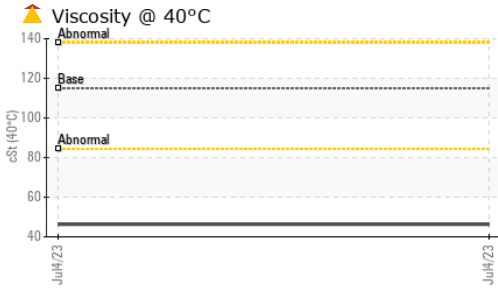
INFRA-RED

method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	0	---
Nitration	Abs/cm	ASTM D7624* >20	8.3	---
Sulfation	Abs/.1mm	ASTM D7415* >30	18.2	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	14.7	---

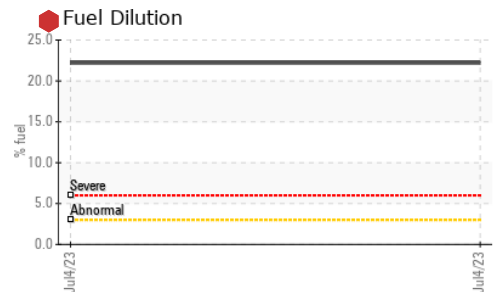
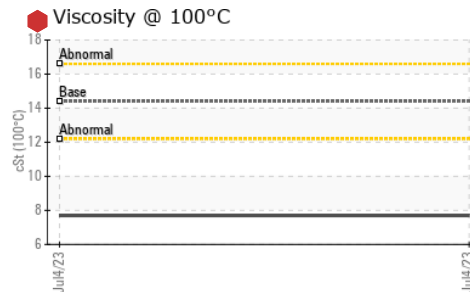
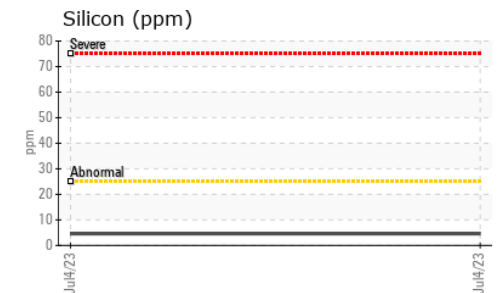
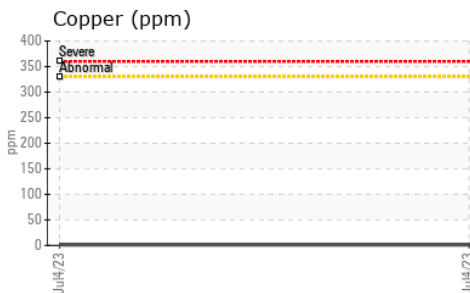
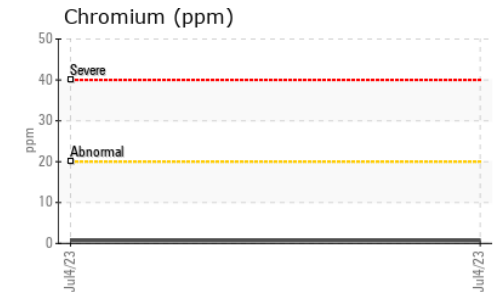
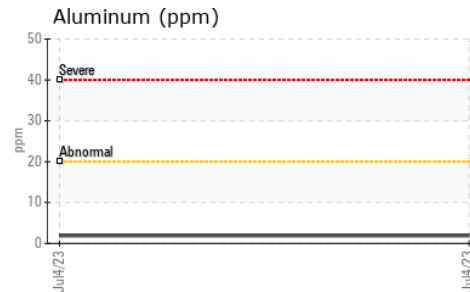
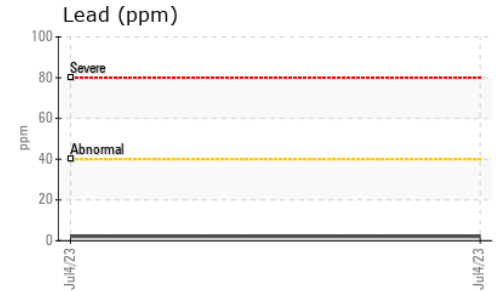
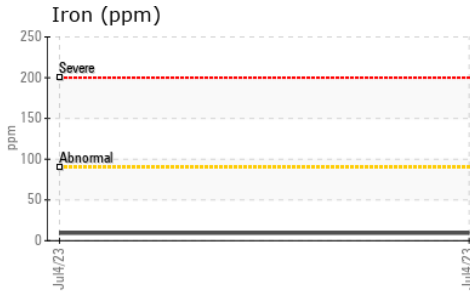
OIL ANALYSIS REPORT



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	46.3	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	7.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	134	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0044983 **Received** : 13 Jul 2023
Lab Number : **02569632** **Diagnosed** : 14 Jul 2023
Unique Number : 5606678 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

ABBY COLONY
 BOX # 299
 ABBY, SK
 CA S0N 0A0
 Contact: Matt

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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 F: