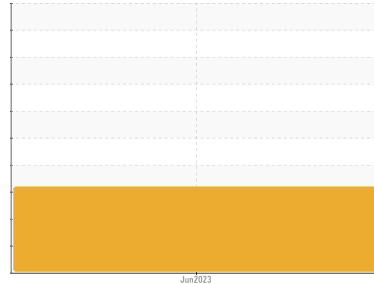




Machine Id
301011
Component
Gasoline Engine
Fluid
SAE 5W30 (--- GAL)



DIAGNOSIS

Recommendation
We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

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	history 1	history 2
Sample Number	Client Info	PC0078203	---	---
Sample Date	Client Info	28 Jun 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	Not Changd	---	---
Sample Status		SEVERE	---	---

CONTAMINATION

method	limit/base	current	history 1	history 2
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185(m) >150	15	---	---
Chromium	ppm ASTM D5185(m) >20	<1	---	---
Nickel	ppm ASTM D5185(m) >5	0	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m) >2	0	---	---
Aluminum	ppm ASTM D5185(m) >40	4	---	---
Lead	ppm ASTM D5185(m) >50	2	---	---
Copper	ppm ASTM D5185(m) >155	6	---	---
Tin	ppm ASTM D5185(m) >10	1	---	---
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	history 1	history 2
Boron	ppm ASTM D5185(m)	6	---	---
Barium	ppm ASTM D5185(m)	<1	---	---
Molybdenum	ppm ASTM D5185(m)	<1	---	---
Manganese	ppm ASTM D5185(m)	2	---	---
Magnesium	ppm ASTM D5185(m)	32	---	---
Calcium	ppm ASTM D5185(m)	1032	---	---
Phosphorus	ppm ASTM D5185(m)	386	---	---
Zinc	ppm ASTM D5185(m)	408	---	---
Sulfur	ppm ASTM D5185(m)	1203	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185(m) >30	15	---	---
Sodium	ppm ASTM D5185(m) >400	2	---	---
Potassium	ppm ASTM D5185(m) >20	2	---	---
Fuel	% ASTM D7593* >4.0	24	---	---

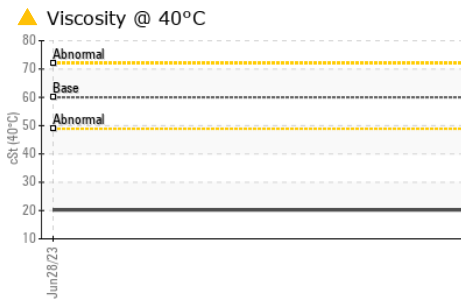
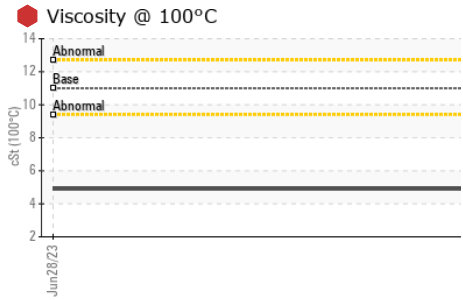
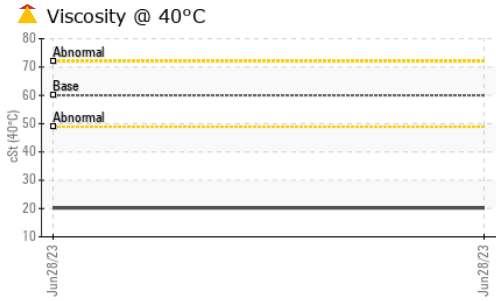
INFRA-RED

method	limit/base	current	history 1	history 2
Soot %	% ASTM D7844*	0	---	---
Nitration	Abs/cm ASTM D7624* >20	6.0	---	---
Sulfation	Abs/.1mm ASTM D7415* >30	15.5	---	---

FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm ASTM D7414* >25	8.7	---	---

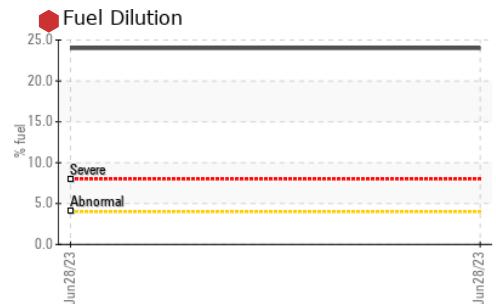
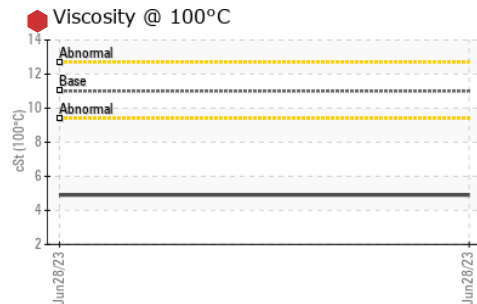
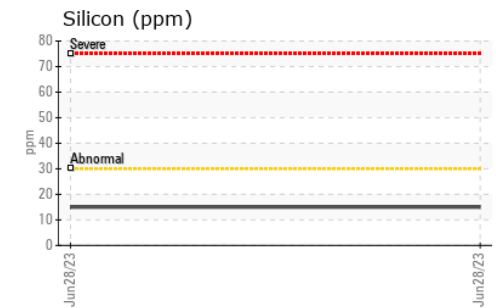
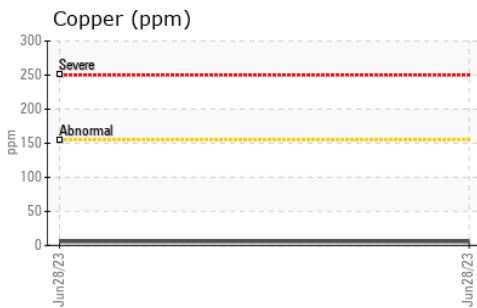
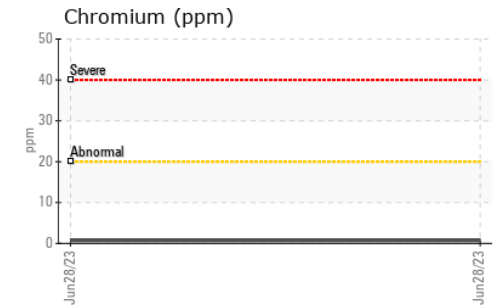
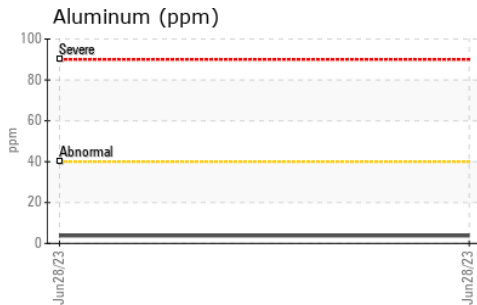
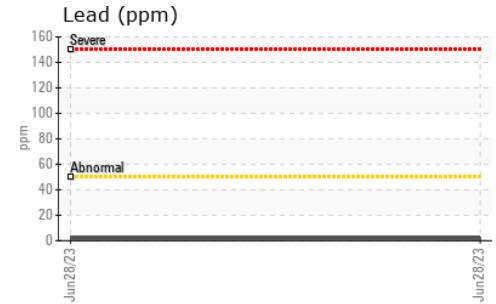
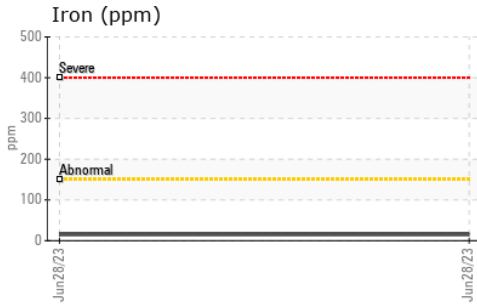
OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history 1	history 2
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	60.0	▲ 20.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	◆ 4.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	177	179	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078203
Lab Number : 02567493
Unique Number : 5604539
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

HAMILTON FIRE DEPT
 MECHANICAL DIV., 177 BAY STREET NORTH
 HAMILTON, ON
 CA L8R 2P8
 Contact: Jenny-Lynn Pellegrino
 jenny-lynn.pellegrino@hamilton.ca
 T: (905)546-2424
 F: (905)961-9116

*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.*