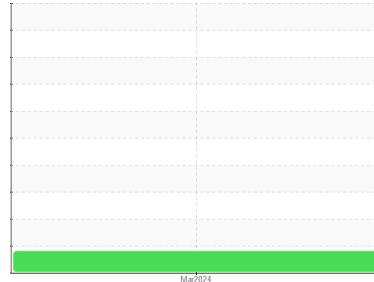


OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

Area
[239109]
Machine Id
PERKINS U641638M
Component
Diesel Engine
Fluid
PETRO CANADA 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 new component breaking in.
- Contamination**
Light fuel dilution occurring. No other contaminants were detected in the oil.
- Fluid Condition**
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WA0021161	---	---
Sample Date	Client Info		11 Mar 2024	---	---
Machine Age	hrs	Client Info	803	---	---
Oil Age	hrs	Client Info	50	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			MARGINAL	---	---

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) >250	8	---	---
Chromium	ppm	ASTM D5185(m) >10	<1	---	---
Nickel	ppm	ASTM D5185(m) >5	<1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m) >3	0	---	---
Aluminum	ppm	ASTM D5185(m) >35	1	---	---
Lead	ppm	ASTM D5185(m) >100	2	---	---
Copper	ppm	ASTM D5185(m) >60	11	---	---
Tin	ppm	ASTM D5185(m) >5	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	history1	history2
Boron	ppm	ASTM D5185(m)	48	---	---
Barium	ppm	ASTM D5185(m)	0	---	---
Molybdenum	ppm	ASTM D5185(m)	41	---	---
Manganese	ppm	ASTM D5185(m)	0	---	---
Magnesium	ppm	ASTM D5185(m)	508	---	---
Calcium	ppm	ASTM D5185(m)	1710	---	---
Phosphorus	ppm	ASTM D5185(m)	913	---	---
Zinc	ppm	ASTM D5185(m)	1050	---	---
Sulfur	ppm	ASTM D5185(m)	2531	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

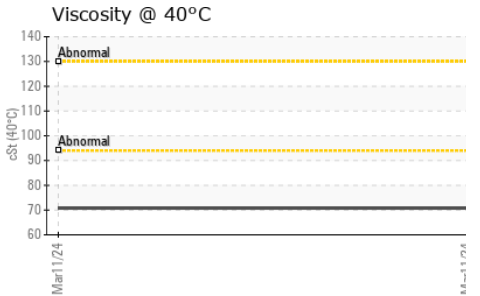
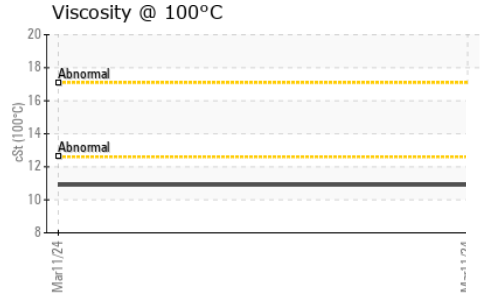
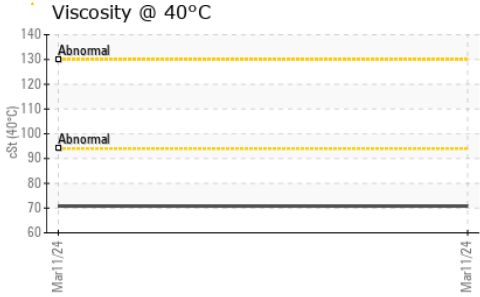
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >35	8	---	---
Sodium	ppm	ASTM D5185(m)	2	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---
Fuel	%	ASTM D7593* >5	▲ 2.5	---	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0	---	---
Nitration	Abs/cm	ASTM D7624* >20	7.2	---	---
Sulfation	Abs./1mm	ASTM D7415* >30	23.2	---	---

OIL ANALYSIS REPORT

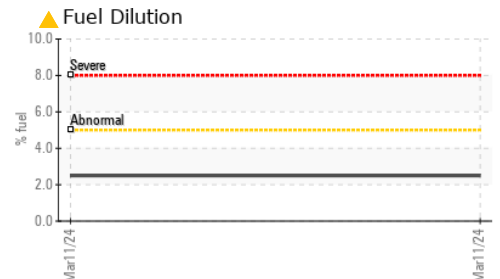
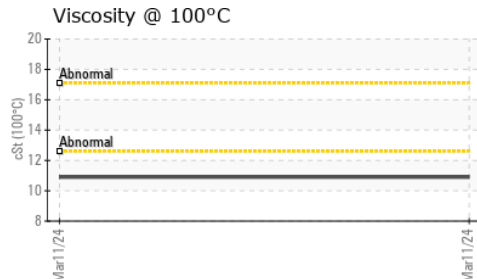
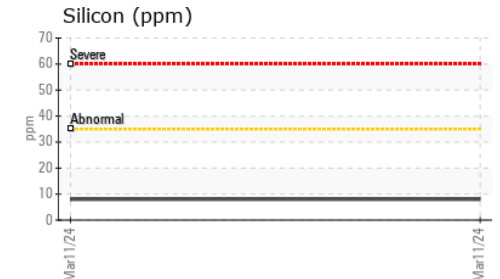
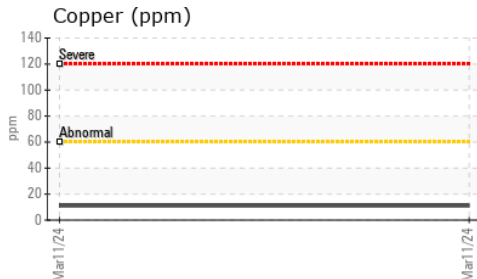
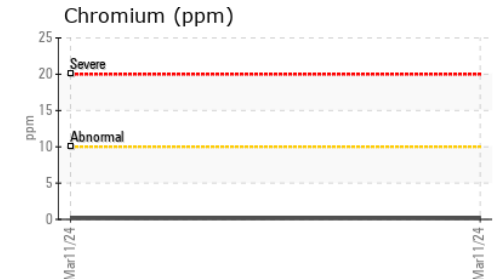
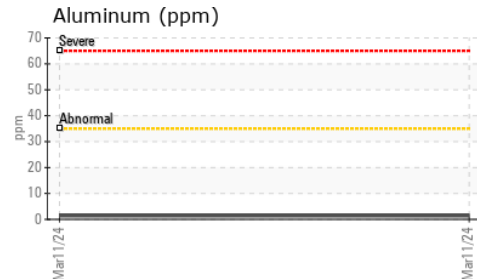
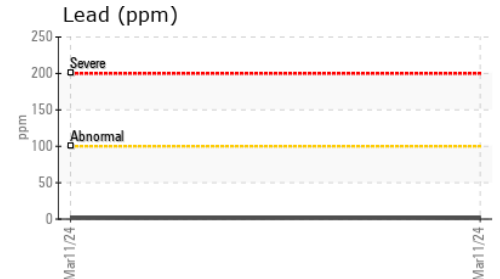
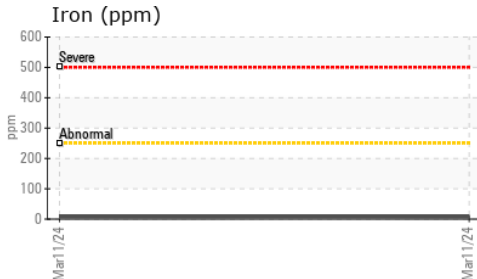


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	21.7	---

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 @ 40°C	cSt	ASTM D7279(m)	70.8	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	143	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021161 **Received** : 19 Mar 2024
Lab Number : 02622973 **Tested** : 20 Mar 2024
Unique Number : 5748092 **Diagnosed** : 20 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

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.

Wajax Power Systems
 70 Raddall Avenue
 Dartmouth, NS
 CA B3B 1T7
 Contact: Danelle Hoffman
 dhoffman@wajax.com
 T: (902)468-6200
 F: (902)468-3325