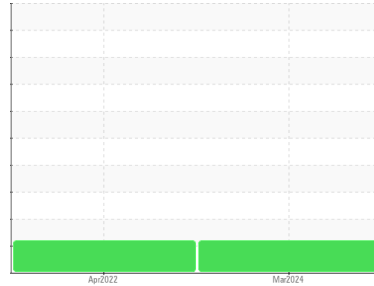




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
25 CUMBERLAND LANE
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

There is a moderate 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		WC0910593	WC0678679	---
Sample Date	Client Info		05 Mar 2024	28 Apr 2022	---
Machine Age	hrs	Client Info	0	111	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	2	1	---
Chromium	ppm	ASTM D5185(m) >20	0	0	---
Nickel	ppm	ASTM D5185(m) >4	0	0	---
Titanium	ppm	ASTM D5185(m)	0	<1	---
Silver	ppm	ASTM D5185(m) >3	0	<1	---
Aluminum	ppm	ASTM D5185(m) >20	<1	<1	---
Lead	ppm	ASTM D5185(m) >40	2	1	---
Copper	ppm	ASTM D5185(m) >330	6	4	---
Tin	ppm	ASTM D5185(m) >15	<1	<1	---
Antimony	ppm	ASTM D5185(m)	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 250	<1	<1	---
Barium	ppm	ASTM D5185(m) 10	0	0	---
Molybdenum	ppm	ASTM D5185(m) 100	55	54	---
Manganese	ppm	ASTM D5185(m)	0	<1	---
Magnesium	ppm	ASTM D5185(m) 450	916	917	---
Calcium	ppm	ASTM D5185(m) 3000	977	986	---
Phosphorus	ppm	ASTM D5185(m) 1150	947	964	---
Zinc	ppm	ASTM D5185(m) 1350	1105	1128	---
Sulfur	ppm	ASTM D5185(m) 4250	2604	2774	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

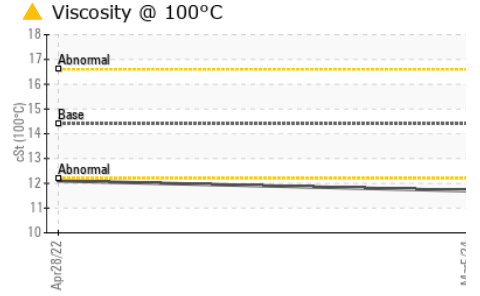
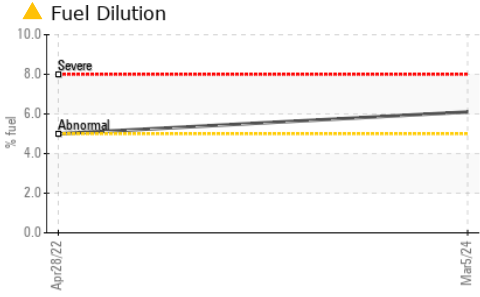
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	1	3	---
Sodium	ppm	ASTM D5185(m) >158	1	1	---
Potassium	ppm	ASTM D5185(m) >20	0	0	---
Fuel	%	ASTM D7593* >5	▲ 6.1	▲ 5	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0	0	---
Nitration	Abs/cm	ASTM D7624* >20	5.5	5.4	---
Sulfation	Abs/.1mm	ASTM D7415* >30	18.6	19.3	---



OIL ANALYSIS REPORT



FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	14.4	14.9	---

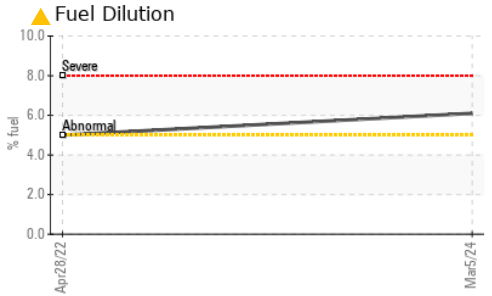
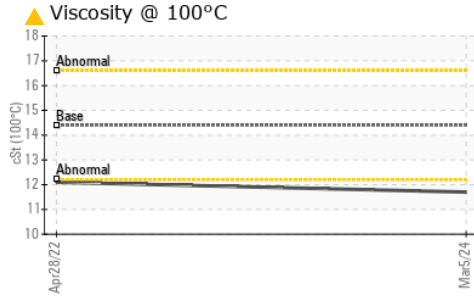
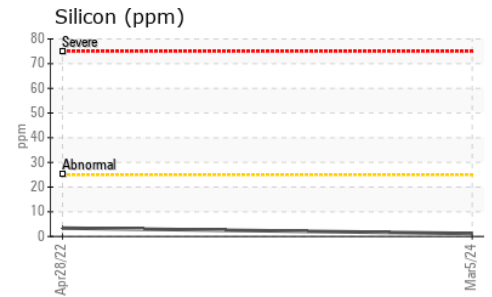
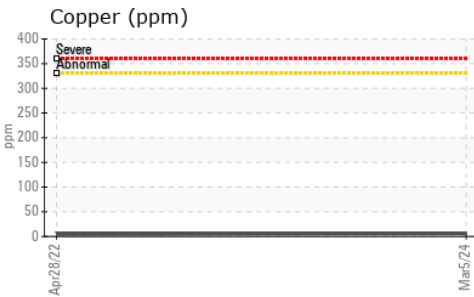
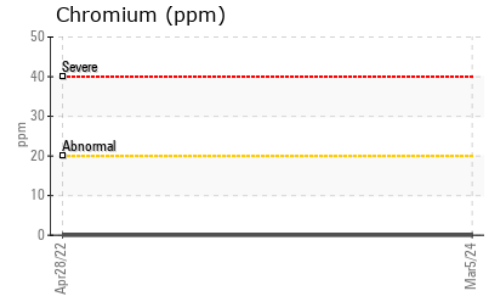
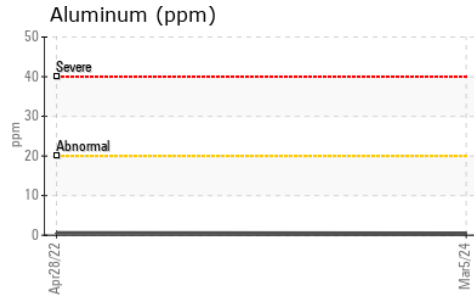
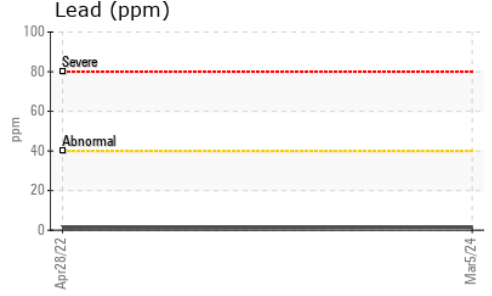
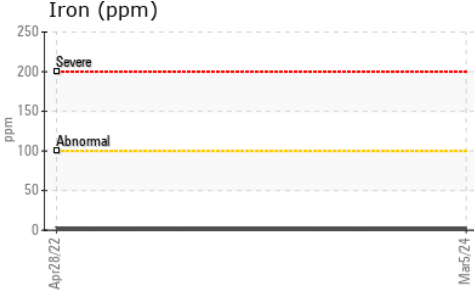
VISUAL

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

FLUID PROPERTIES

	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	▲ 11.7	▲ 12.1	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0910593
Lab Number : **02625641**
Unique Number : 5750760
Test Package : MOB 1 (Additional Tests: PercentFuel)
Received : 01 Apr 2024
Tested : 02 Apr 2024
Diagnosed : 02 Apr 2024 - Wes Davis

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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.