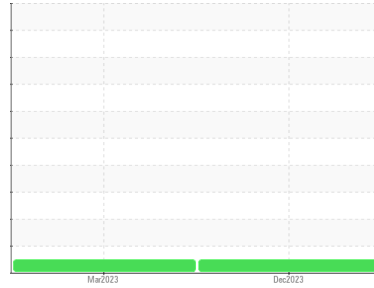


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id

P49

Component

Diesel Engine

Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination 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			PC0078488	PC0071775	---
Sample Date	Client Info			27 Dec 2023	03 Mar 2023	---
Machine Age	hrs	Client Info		96456	93314	---
Oil Age	hrs	Client Info		5000	2000	---
Oil Changed	Client Info			Not Chngd	Not Chngd	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	---
Water	WC Method	>0.2		NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

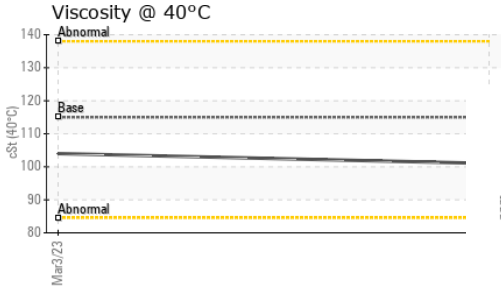
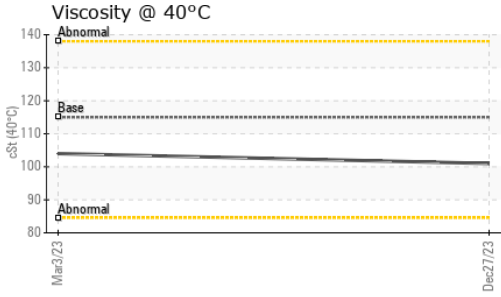
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	20	6	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	4	2	---
Lead	ppm	ASTM D5185(m)	>40	1	<1	---
Copper	ppm	ASTM D5185(m)	>330	1	<1	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
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	56	57	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)	450	937	968	---
Calcium	ppm	ASTM D5185(m)	3000	1017	1074	---
Phosphorus	ppm	ASTM D5185(m)	1150	984	1076	---
Zinc	ppm	ASTM D5185(m)	1350	1144	1180	---
Sulfur	ppm	ASTM D5185(m)	4250	2662	2699	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	3	---
Sodium	ppm	ASTM D5185(m)	>158	2	2	---
Potassium	ppm	ASTM D5185(m)	>20	2	0	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1	0	---
Nitration	Abs/cm	ASTM D7624*	>20	5.9	5.0	---
Sulfation	Abs.1mm	ASTM D7415*	>30	19.0	18.9	---

OIL ANALYSIS REPORT

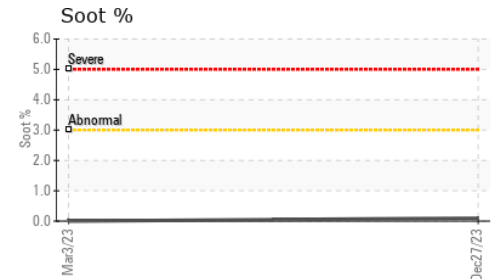
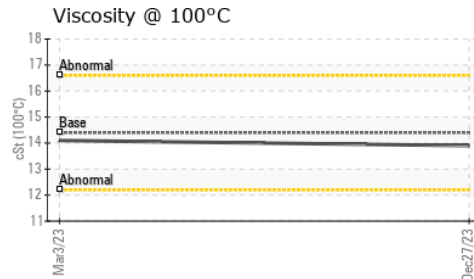
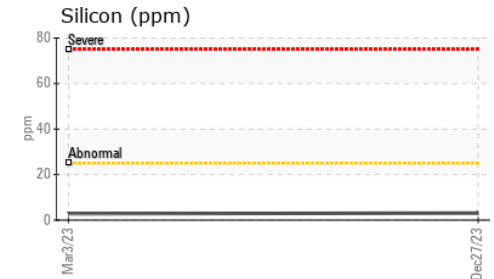
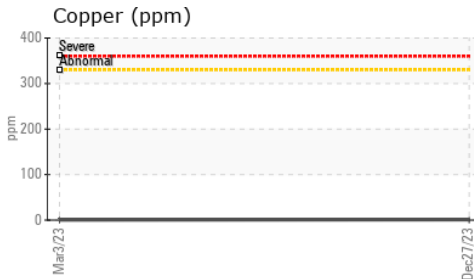
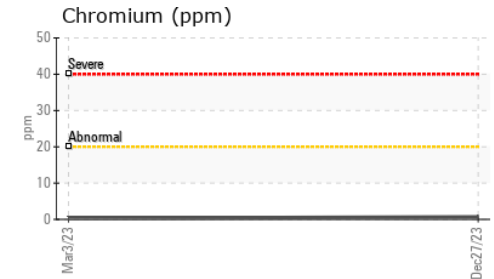
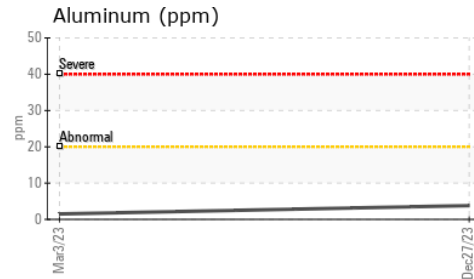
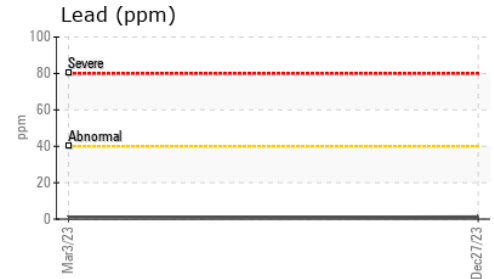
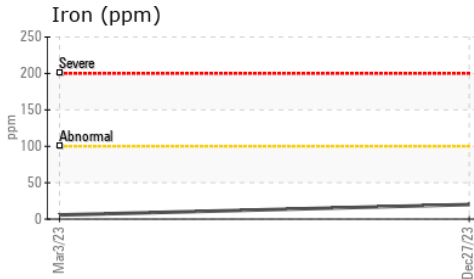


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	14.8	12.3	---

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 @ 40°C	cSt	ASTM D7279(m)	115	101	104	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.9	14.1	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	139	137	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078488 **Received** : 18 Jan 2024
Lab Number : **02609686** **Diagnosed** : 18 Jan 2024
Unique Number : 5710772 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

HAMILTON FIRE DEPT
 MECHANICAL DIV., 177 BAY STREET NORTH
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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.*