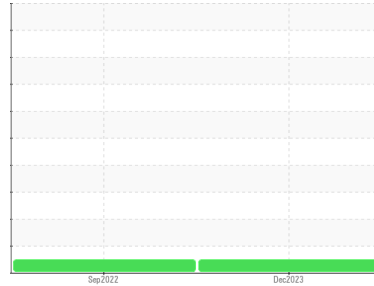


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
P-234 25095

Component
Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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			PC0075202	PC0064690	---
Sample Date	Client Info			03 Dec 2023	14 Sep 2022	---
Machine Age	hrs	Client Info		0	11966	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0		<1.0	<1.0	---
Water	WC Method	>0.2		NEG	NEG	---
Glycol	WC Method			NEG	0.0	---

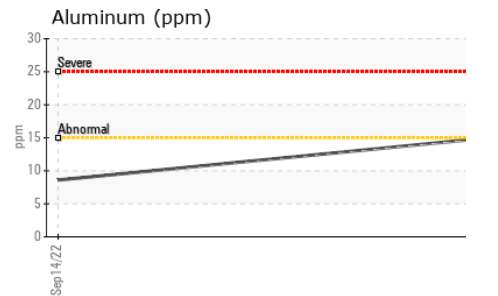
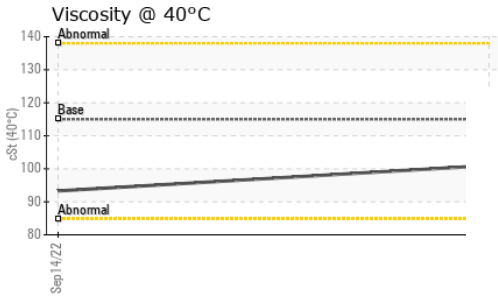
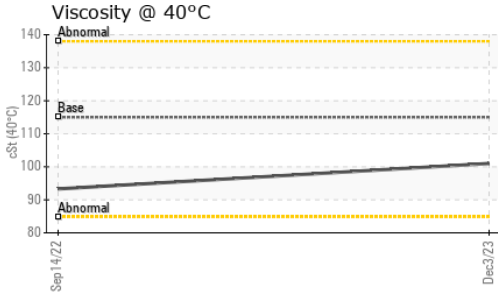
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	54	39	---
Chromium	ppm	ASTM D5185(m)	>5	1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	0	---
Titanium	ppm	ASTM D5185(m)	>2	0	<1	---
Silver	ppm	ASTM D5185(m)	>2	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>15	15	9	---
Lead	ppm	ASTM D5185(m)	>25	2	6	---
Copper	ppm	ASTM D5185(m)	>100	46	201	---
Tin	ppm	ASTM D5185(m)	>4	<1	2	---
Antimony	ppm	ASTM D5185(m)		0	<1	---
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	5	31	---
Barium	ppm	ASTM D5185(m)	10	<1	1	---
Molybdenum	ppm	ASTM D5185(m)	100	62	60	---
Manganese	ppm	ASTM D5185(m)		<1	3	---
Magnesium	ppm	ASTM D5185(m)	450	962	1020	---
Calcium	ppm	ASTM D5185(m)	3000	1046	1003	---
Phosphorus	ppm	ASTM D5185(m)	1150	888	1049	---
Zinc	ppm	ASTM D5185(m)	1350	1130	1171	---
Sulfur	ppm	ASTM D5185(m)	4250	2297	2493	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	16	13	---
Sodium	ppm	ASTM D5185(m)	>158	5	3	---
Potassium	ppm	ASTM D5185(m)	>20	44	25	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	1.1	0.5	---
Nitration	Abs/cm	ASTM D7624*	>20	11.8	10.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.4	24.7	---

OIL ANALYSIS REPORT

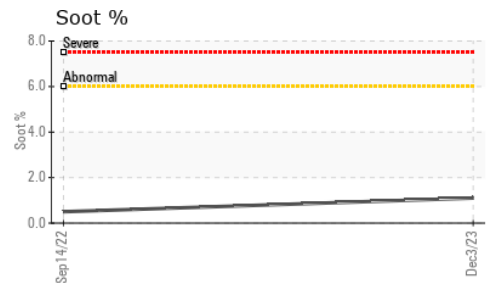
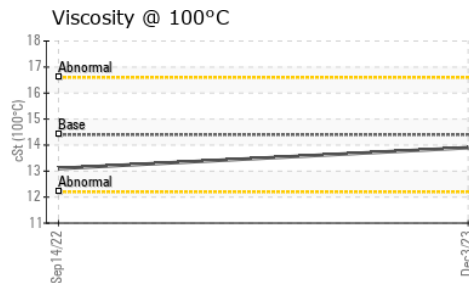
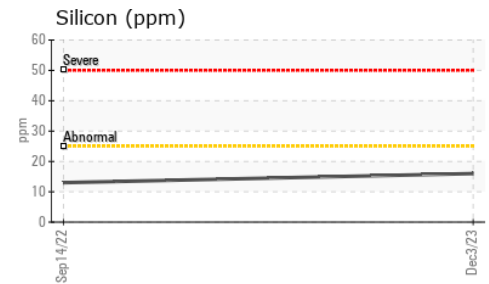
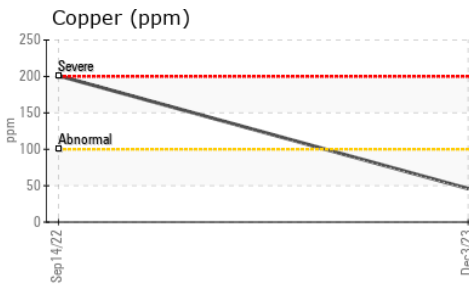
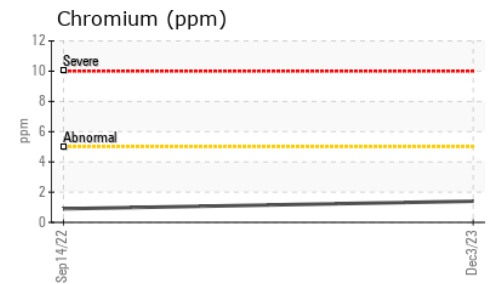
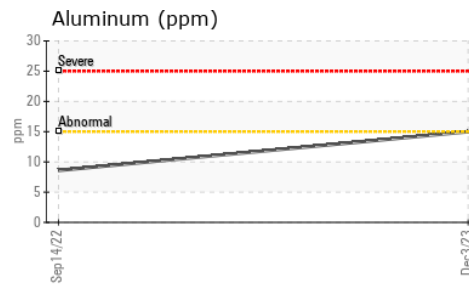
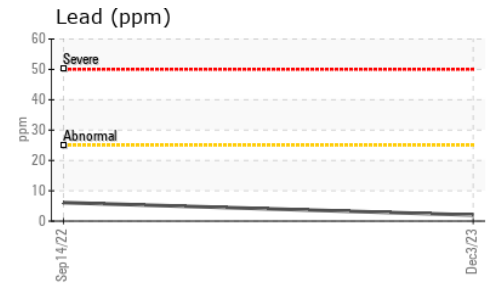
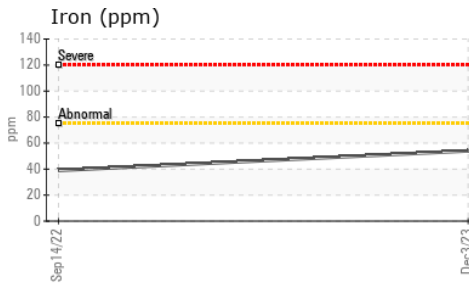


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	26.9	21.0	---

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	93.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.9	13.1	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	139	139	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0075202 **Received** : 15 Dec 2023
Lab Number : **02603441** **Diagnosed** : 18 Dec 2023
Unique Number : 5696526 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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.