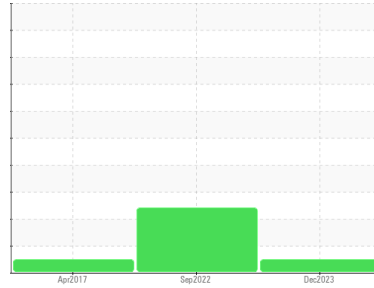


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**E-ONE 25058**

Component  
**Rear Diesel Engine**

Fluid  
**PETRO CANADA DURON SAE 15W40 (22 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Test for glycol is negative. 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			<b>PC0075203</b>	PC0064694	AP105314
Sample Date	Client Info			<b>13 Dec 2023</b>	22 Sep 2022	26 Apr 2017
Machine Age	hrs	Client Info		<b>9100</b>	8055	49271
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG

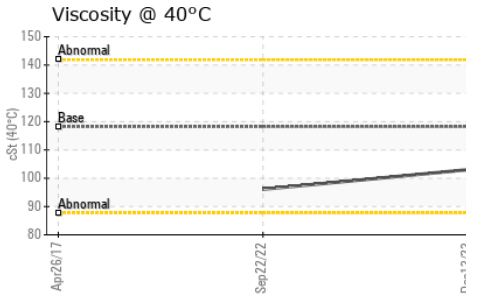
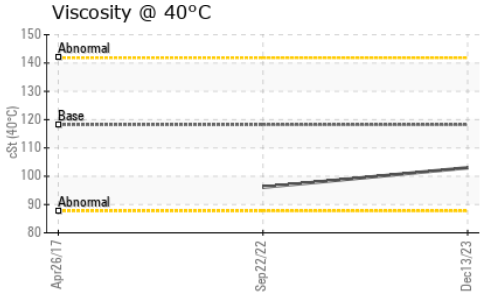
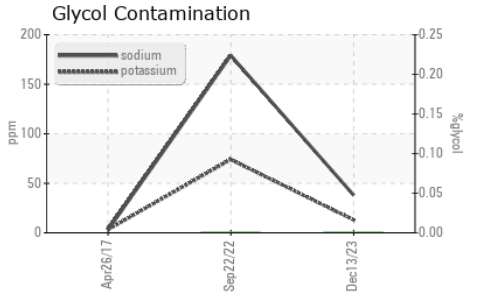
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	<b>21</b>	31	23
Chromium	ppm	ASTM D5185(m)	>5	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	<b>7</b>	8	3
Lead	ppm	ASTM D5185(m)	>25	<b>4</b>	1	1
Copper	ppm	ASTM D5185(m)	>100	<b>154</b>	2	5
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	<b>2</b>	17	25
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>59</b>	64	1
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>937</b>	901	13
Calcium	ppm	ASTM D5185(m)	1070	<b>1014</b>	1069	2410
Phosphorus	ppm	ASTM D5185(m)	1150	<b>951</b>	962	989
Zinc	ppm	ASTM D5185(m)	1270	<b>1127</b>	1118	1214
Sulfur	ppm	ASTM D5185(m)	2060	<b>2461</b>	2668	3211
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	7	7
Sodium	ppm	ASTM D5185(m)		<b>38</b>	179	3
Potassium	ppm	ASTM D5185(m)	>20	<b>13</b>	74	3
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	<b>0.7</b>	0.9	1.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.2</b>	12.3	12.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.5</b>	26.1	31.2

# OIL ANALYSIS REPORT

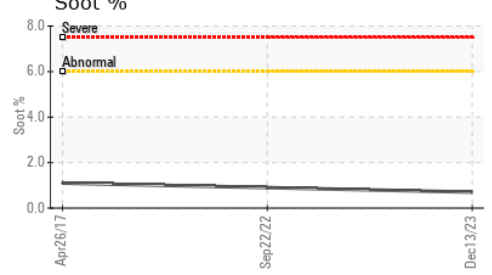
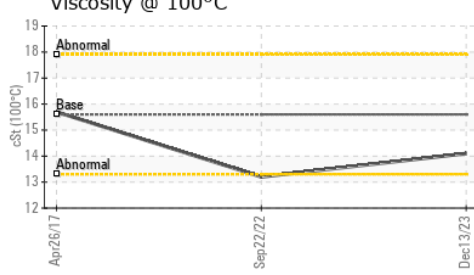
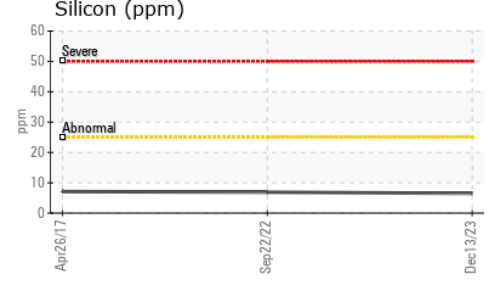
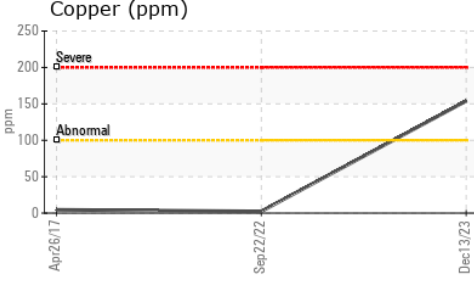
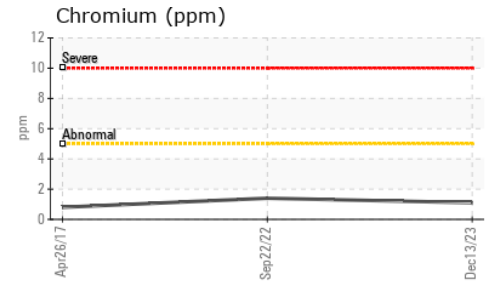
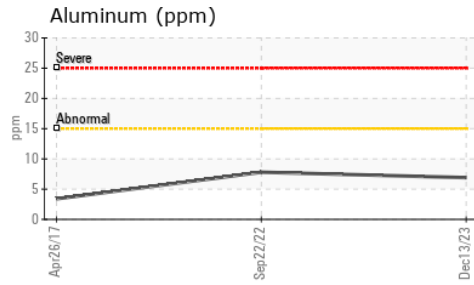
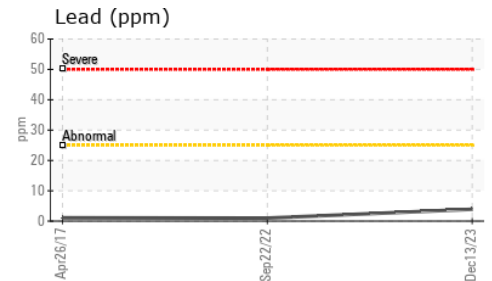
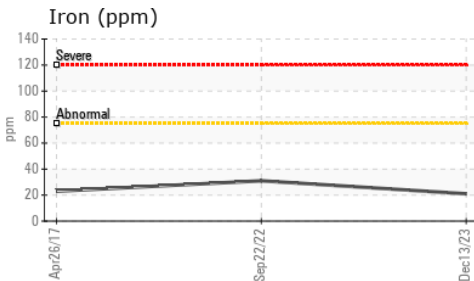


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	19.4	22.8	24.2

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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	103	96.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.1	13.2	15.7
Viscosity Index (VI)	Scale	ASTM D2270*	139	139	136	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0075203 **Received** : 01 Mar 2024  
**Lab Number** : 02619137 **Tested** : 01 Mar 2024  
**Unique Number** : 5736247 **Diagnosed** : 01 Mar 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KV40, VI )

**TORONTO FIRE SERVICES**  
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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.