



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**1254**  
Component  
**Rear Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (--- GAL)**

## RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0887379</b>	WC0873868	WC0850856
Sample Date		Client Info		<b>03 Jan 2024</b>	13 Nov 2023	14 Sep 2023
Machine Age	kms	Client Info		<b>43549</b>	871263	0
Oil Age	kms	Client Info		<b>535</b>	0	695
Filter Age	kms	Client Info		<b>535</b>	0	695
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	MARGINAL	ABNORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>7</b>	12	19
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

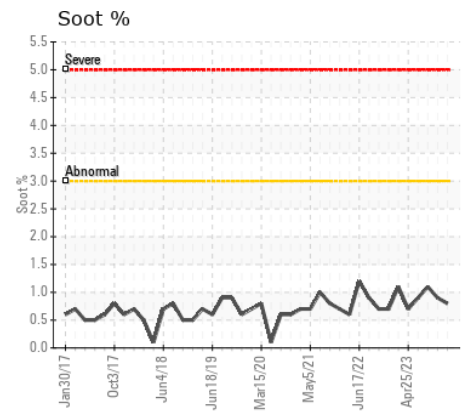
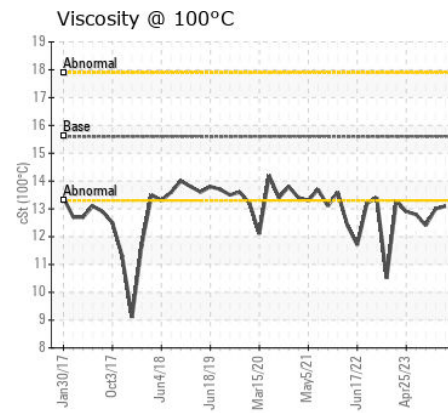
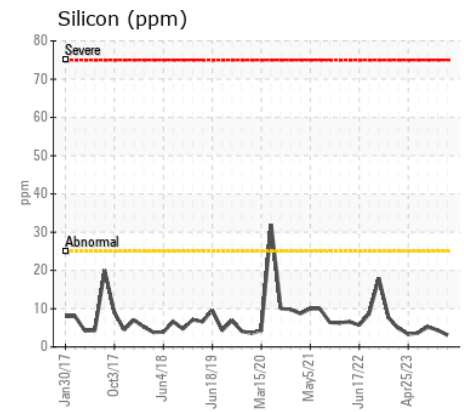
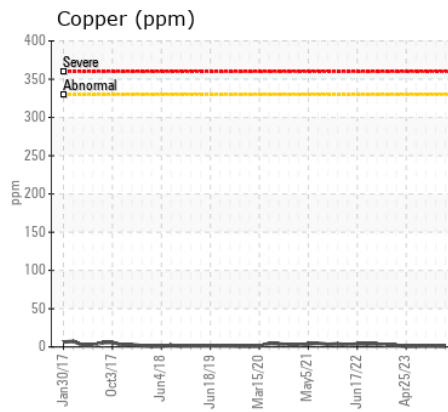
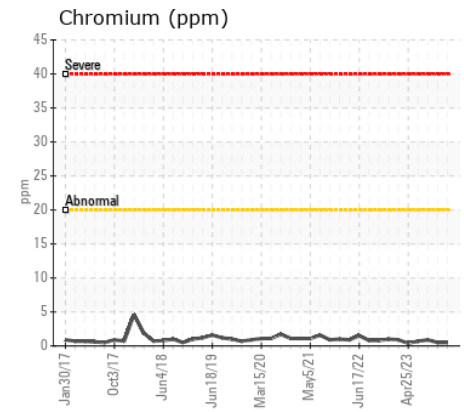
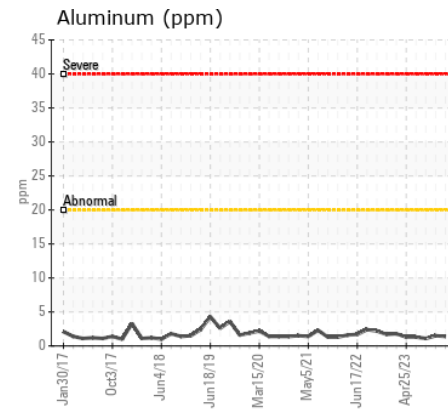
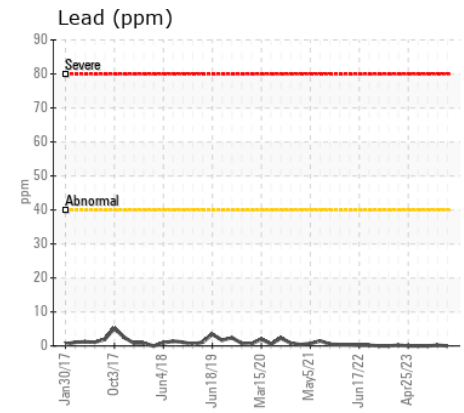
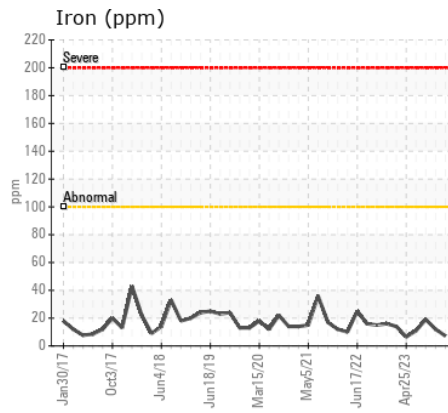
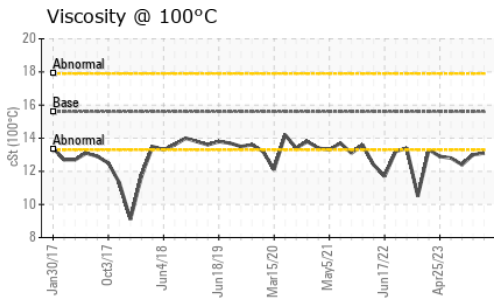
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	4	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1
Fuel		WC Method	>5	<b>&lt;1.0</b>	▲ 2.5	▲ 3.3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	0.0	0.0
Soot %	%	ASTM D7844*	>3	<b>0.8</b>	0.9	1.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.8</b>	10.7	13.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.5</b>	30.1	38.1
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>54</b>	115	92
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	3	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	62	57
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>924</b>	919	846
Calcium	ppm	ASTM D5185(m)	1070	<b>1028</b>	1026	950
Phosphorus	ppm	ASTM D5185(m)	1150	<b>940</b>	895	827
Zinc	ppm	ASTM D5185(m)	1270	<b>1110</b>	1107	1036
Sulfur	ppm	ASTM D5185(m)	2060	<b>2584</b>	2415	2227
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>23.7</b>	34.1	50.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.1</b>	13.0	▲ 12.4



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0887379  
**Lab Number** : 02608892  
**Unique Number** : 5709978  
**Test Package** : MOB 1

**Received** : 16 Jan 2024  
**Diagnosed** : 16 Jan 2024  
**Diagnostician** : Wes Davis

**KINGSTON TRANSIT**  
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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.