



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**1256**  
 Component  
**Rear Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 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>WC0925702</b>	WC0905430	WC0882987
Sample Date		Client Info		<b>03 Apr 2024</b>	09 Feb 2024	11 Dec 2023
Machine Age	hrs	Client Info		<b>44562</b>	43974	43482
Oil Age	hrs	Client Info		<b>588</b>	492	512
Filter Age	hrs	Client Info		<b>588</b>	492	512
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>8</b>	7	8
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
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

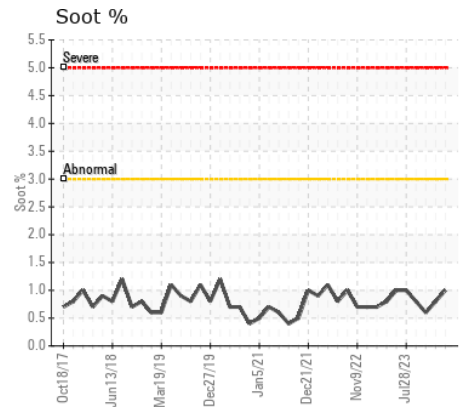
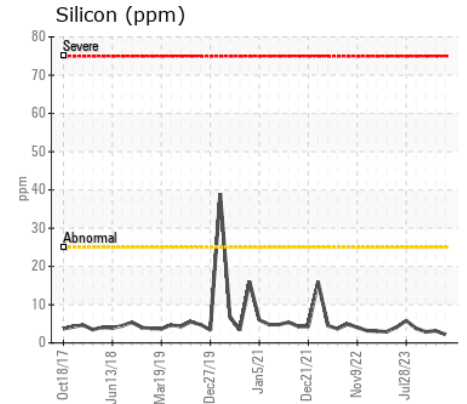
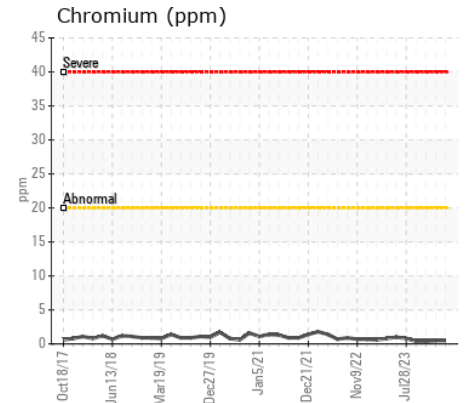
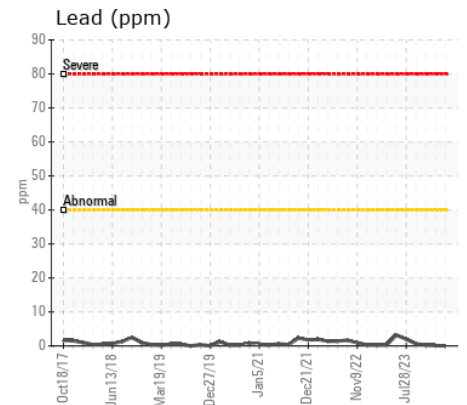
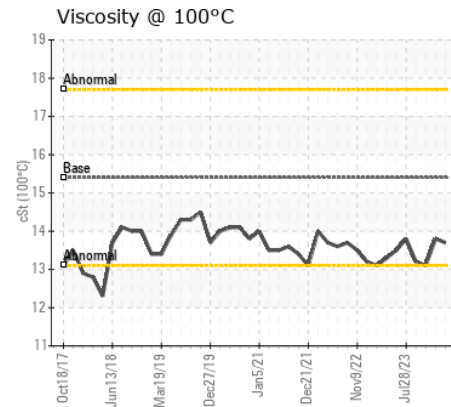
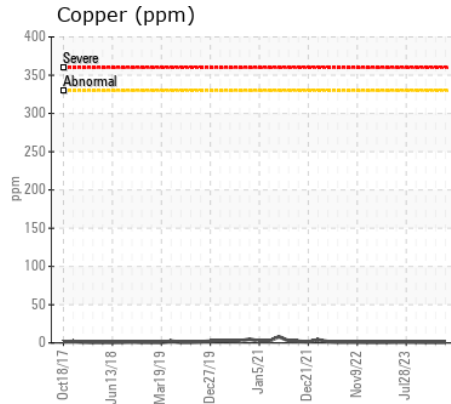
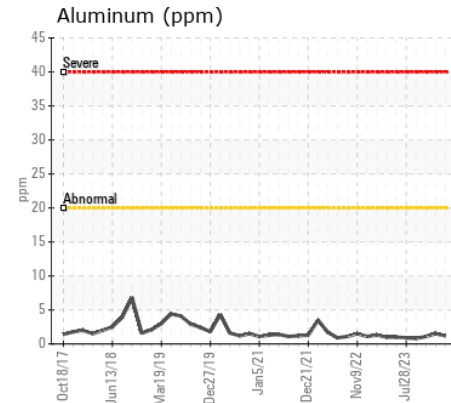
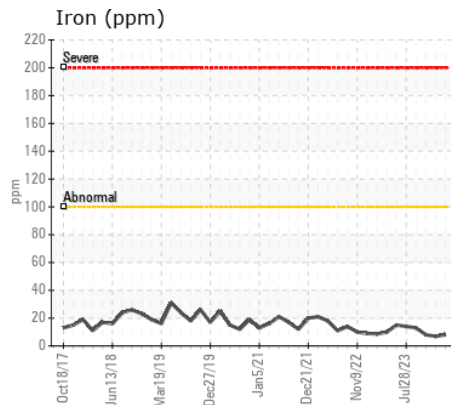
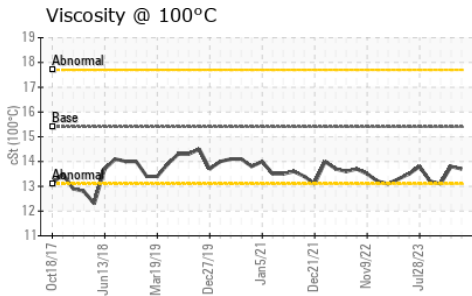
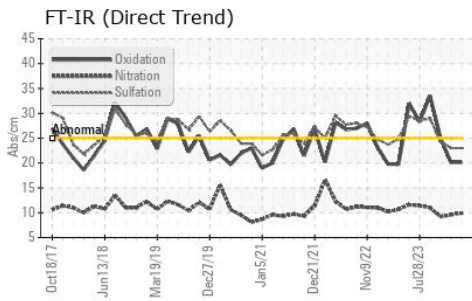
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>1</b>	0.8	0.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.9</b>	9.6	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.0</b>	23.0	24.2
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>3</b>	1	2
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	<1	1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>59</b>	59	58
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>966</b>	974	931
Calcium	ppm	ASTM D5185(m)	1070	<b>1042</b>	1066	1033
Phosphorus	ppm	ASTM D5185(m)	1150	<b>987</b>	1021	945
Zinc	ppm	ASTM D5185(m)	1270	<b>1180</b>	1185	1129
Sulfur	ppm	ASTM D5185(m)	2060	<b>2441</b>	2716	2564
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.1</b>	20.1	25.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.7</b>	13.8	13.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0925702  
**Lab Number** : 02628124  
**Unique Number** : 5761256  
**Test Package** : MOB 1  
**Received** : 11 Apr 2024  
**Tested** : 11 Apr 2024  
**Diagnosed** : 11 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.