

OIL ANALYSIS REPORT

Sample Rating Trend





The oil change at the time of sampling has been noted. We recommend an early resample to

Aluminum ppm levels are abnormal. Piston wear is

There is no indication of any contamination in the

The oil is no longer serviceable as a result of the

DIAGNOSIS

monitor this condition.

🔺 Wear

indicated.

Fluid Condition

abnormal and/or severe wear.

oil.

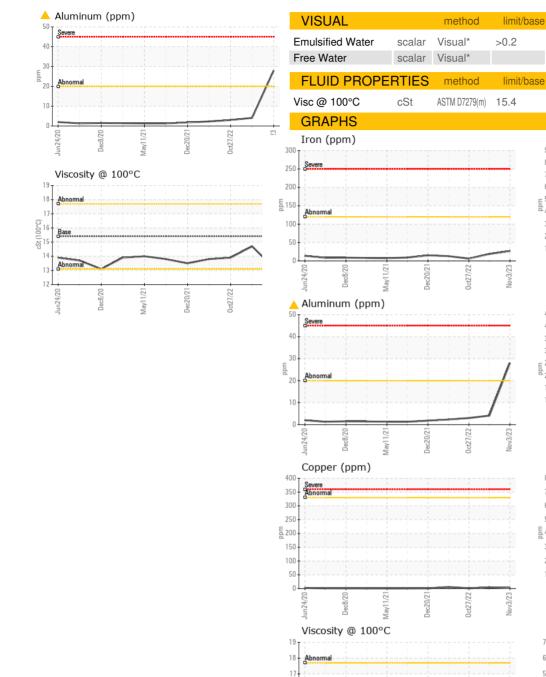
Component Diesel Engine Fluid

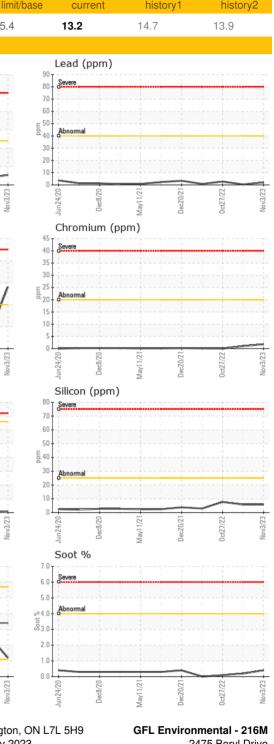
PETRO CANADA DURON SHP 15W40 (--- LTR)

N SHP 15W40 (LIN)	Jun2020	Dec2020 May2021	Dec2021 Oct2022	Nov2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090417	GFL0063574	GFL0054313
Sample Date		Client Info		03 Nov 2023	05 Jan 2023	27 Oct 2022
Machine Age	hrs	Client Info		18985	11088	17334
Dil Age	hrs	Client Info		0	600	0
Dil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	0.0
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>120	27	19	6
Chromium	ppm	ASTM D5185(m)	>20	2	1	0
lickel	ppm	ASTM D5185(m)	>15	2	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	▲ 28	4	3
_ead	ppm	ASTM D5185(m)	>40	2	<1	3
Copper	ppm	ASTM D5185(m)	>330	2	5	1
Fin		ASTM D5185(m)	>15	<u>ہ</u> <1	<1	<1
Antimony	ppm	ASTM D5185(m)	>10	0	<1	<1
,	ppm	()		-		
anadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	32	2	13
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Nolybdenum	ppm	ASTM D5185(m)	60	64	59	42
<i>M</i> anganese	ppm	ASTM D5185(m)	0	0	<1	<1
<i>I</i> agnesium	ppm	ASTM D5185(m)	1010	977	971	849
Calcium	ppm	ASTM D5185(m)	1070	1112	1093	1147
Phosphorus	ppm	ASTM D5185(m)	1150	966	1051	945
Zinc	ppm	ASTM D5185(m)	1270	1184	1196	1019
Sulfur	ppm	ASTM D5185(m)	2060	2503	2444	2528
_ithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	6	8
Sodium	ppm	ASTM D5185(m)		6	3	6
			>20	2	2	2
Potassium	ppm	ASTM D5185(m)	20	-		
Potassium	ppm	method	limit/base	current	history1	history2
INFRA-RED	ppm %	. ,			history1 0.2	history2 0.1
INFRA-RED	%	method ASTM D7844*	limit/base	current 0.4	0.2	0.1
Potassium INFRA-RED Soot % Nitration Sulfation		method	limit/base >4	current		
INFRA-RED Soot % Vitration	% Abs/cm Abs/.1mm	method ASTM D7844* ASTM D7624* ASTM D7415*	limit/base >4 >20	current 0.4 10.2	0.2 8.8	0.1 6.6 20.1
INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method ASTM D7844* ASTM D7624* ASTM D7415*	limit/base >4 >20 >30 limit/base	current 0.4 10.2 23.2	0.2 8.8 21.3	6.6



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current

NEG

NEG

history1

NEG

NEG

history2

.2%

NEG

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Laboratory CALA Sample No. : GFL0090417 Received : 08 Nov 2023 Lab Number : 02594813 Diagnosed : 08 Nov 2023 ISO 17025:2017 Accredited Laboratory Unique Number : 5671892 Diagnostician : Kevin Marson Test Package : MOB 1 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.

Dec8/20

May11/21.

Dec20/21

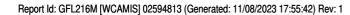
0ct27/22 -

cSt (100°C)

14 Abnor 13

12





5.0

Submitted By: Dora Viron Page 2 of 2