

# **OIL ANALYSIS REPORT**

#### **⊤** Sai

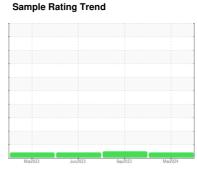
# VISCOSITY



GFL234
Machine Id
429014
Component

Diesel Engine

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





### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

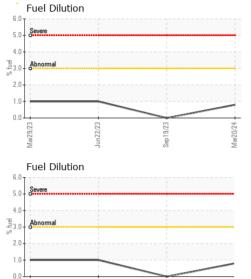
#### ▲ Fluid Condition

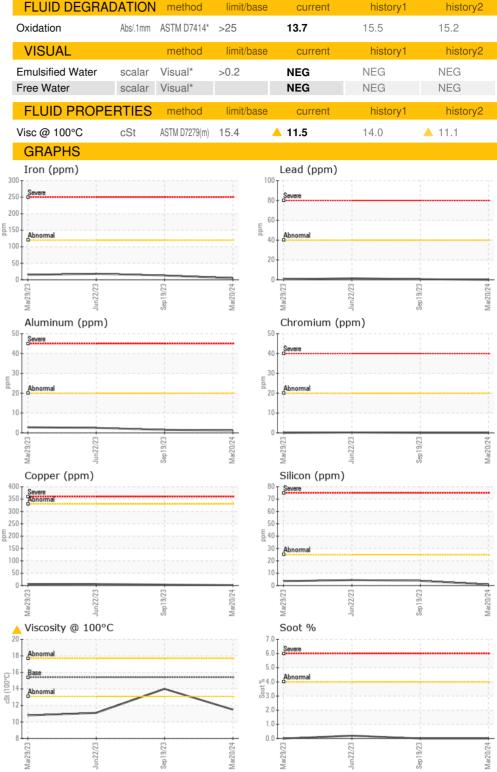
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

,	Mar2023 Jun2023 Sup2023 Min2024					
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110651	GFL0035518	GFL0035514
Sample Date		Client Info		20 Mar 2024	19 Sep 2023	22 Jun 2023
Machine Age	hrs	Client Info		10663	9953	9630
Oil Age	hrs	Client Info		600	600	9630
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	5	13	18
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	2	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	2
Copper	ppm	ASTM D5185(m)	>330	2	4	6
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	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	6	103	29
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	58	14	86
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	871	42	31
Calcium	ppm	ASTM D5185(m)	1070	1116	2100	2084
Phosphorus	ppm	ASTM D5185(m)	1150	1000	971	1035
Zinc	ppm	ASTM D5185(m)	1270	1169	1104	1146
Sulfur	ppm	ASTM D5185(m)	2060	2624	2824	2945
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<1	4	4
Sodium	ppm	ASTM D5185(m)		3	6	7
Potassium	nnm	ASTM D5185(m)	>20	<1	7	2
Folassium	ppm					
Fuel	%	ASTM D7593*	>3.0	0.8	<1.0	1
	• • • • • • • • • • • • • • • • • • • •		>3.0 limit/base	0.8 current	<1.0	1 history2
Fuel	• • • • • • • • • • • • • • • • • • • •	ASTM D7593*				
Fuel INFRA-RED	%	ASTM D7593*  method	limit/base	current	history1	history2



## **OIL ANALYSIS REPORT**







CALA ISO 17025:2017 Accredited

Laboratory Sample No.

Lab Number : 02624557 Unique Number : 5749676

: GFL0110651

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 26 Mar 2024 **Tested** : 27 Mar 2024 Diagnosed

: 27 Mar 2024 - Kevin Marson Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 213 - Kitchener 16 Centennial Road, Kitchener Yard Kitchener, ON **CA N2B 3G1** Contact: Keith Zehr kzehr@gflenv.com

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.

Submitted By: Keith Zehr

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F: x: