

Machine Id **819014** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (--- GAL)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		GFL0125520	GFL0100644	GFL0077040
	Sample Date		Client Info		28 Jun 2024	01 Jan 2024	23 Jun 2023
	Machine Age	kms	Client Info		76682	65505	5214
	Oil Age	kms	Client Info		0	0	0
	Filter Age	kms	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>75	30	12	36
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)		1	<1	1
	Nickel	ppm	ASTM D5185(m)		<1	0	0
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)		<1	0	<1
	Aluminum	ppm	ASTM D5185(m)		4	3	5
	Lead	ppm	ASTM D5185(m)	>25	0	<1	0
	Copper	ppm	ASTM D5185(m)	>100	2	2	3
	Tin	ppm	ASTM D5185(m)	>4	0	0	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	VLITE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Silicon	ppm	ASTM D5185(m)	>25	7	5	13
	Potassium	ppm	ASTM D5185(m)		2	2	5
	Fuel	%	ASTM D7593*	>3.0	▲ 3.5	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	01	WC Method	0	NEG	NEG	0.0
	Soot %	%	ASTM D7844*		0.6	0.3	0.9
	Nitration	Abs/cm	ASTM D7624*	>20	11.4 25.3	8.2 20.1	11.6 25.4
	Sulfation Silt	Abs/.1mm scalar	ASTM D7415* Visual*	>30 NONE	25.3 NONE	20.1	20.4
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar		NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML	NORML	NORML
	Emulsified Water		Visual*	>0.2	NEG	NEG	NEG
		Judiai	Visual	20.2		NEQ	NLU
FLUID CONDITION The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The oil is no longer serviceable due to the presence of contaminants.	Sodium	ppm	ASTM D5185(m)		10	6	11
	Boron	ppm	ASTM D5185(m)	0	2	2	2
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	()	60	55	59	60
	Manganese	ppm	ASTM D5185(m)	0	<1	0	<1

Magnesium

Phosphorus

Calcium

Zinc

Sulfur

Oxidation

ppm

ppm

ppm

ppm

ppm

Visc @ 100°C cSt ASTM D7279(m) 15.4

ASTM D5185(m) 1010

ASTM D5185(m) 1150

ASTM D5185(m) 2060

ASTM D5185(m)

ASTM D5185(m)

Abs/.1mm ASTM D7414* >25

1070

1270

905

988

905

1135

2167

25.8

12.8

947

1048

981

1160

2611

16.4

14.1

950

1040

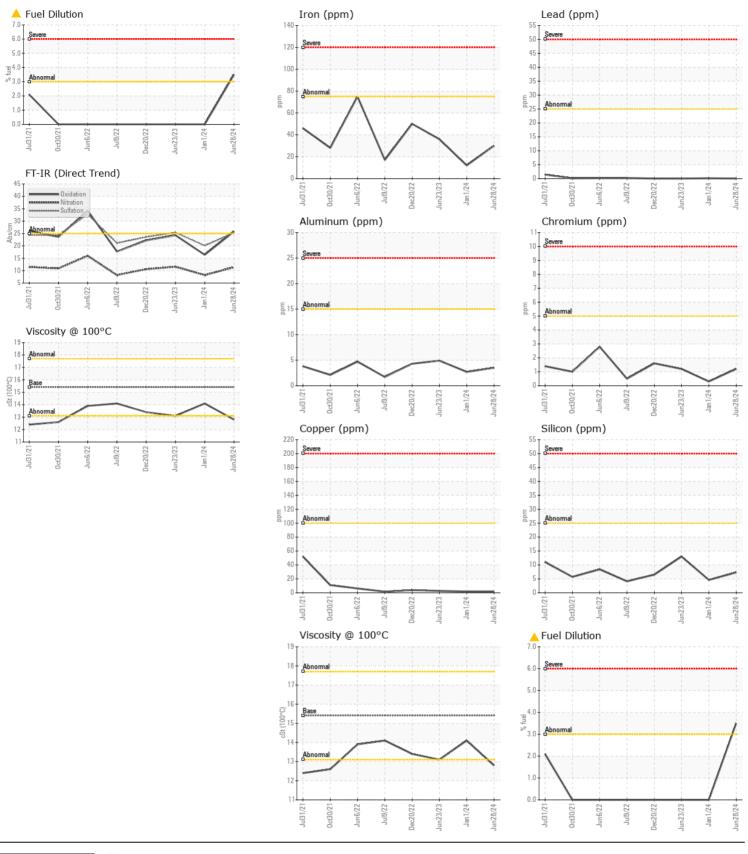
999

1180

24.3

13.1

2162



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling Laboratory CALA Sample No. : GFL0125520 Received 38950 Queens Way, : 02 Jul 2024 Lab Number : 02644746 Tested Squamish, BC : 03 Jul 2024 ISO 17025:2017 Accredited Unique Number : 5802285 : 03 Jul 2024 - Kevin Marson CA V8B 0K8 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual) Contact: Dean Imbeau To discuss this sample report, contact Customer Service at 1-800-268-2131. dimbeau@gflenv.com T: (604)892-5604 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (604)892-5238 Validity of results and interpretation are based on the sample and information as supplied.

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