

Machine Id 801030 Compone **Diesel Engine** PETRO CANADA DURON SHP 15W40 (19 LTR)

RECOMMEND

PETRO CANADA DURON SHP 15W40 (19 LTR	<i></i>						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Number		Client Info		GFL0122325	GFL0117914	GFL0107150
	Sample Date		Client Info		27 Jun 2024	04 Apr 2024	10 Jan 2024
	Machine Age	kms	Client Info		102796	12582	102796
	Oil Age	kms	Client Info		0	600	0
	Filter Age	kms	Client Info		0	600	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>100	47	33	31
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)	>20	2	1	1
	Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>20	3	2	3
	Lead	ppm	ASTM D5185(m)	>40	0	0	<1
	Copper	ppm	ASTM D5185(m)	>330	1	<1	1
	Tin	ppm	ASTM D5185(m)	>15	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	14	3	4
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185(m)	>20	2	2	2
	Fuel	%	ASTM D7593*	>5	- 1.5	<u> </u>	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.8	0.5	0.5
	Nitration	Abs/cm	ASTM D7624*	>20	11.9	12.3	12.6
	Sulfation	Abs/.1mm	ASTM D7415*	>30	26.3	24.0	25.1
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		10	7	8
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	0	43	7	11
	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	75	61	62
	Manganese	ppm	ASTM D5185(m)		<1	<1	0
	Magnesium	ppm	ASTM D5185(m)	1010	784	968	958
	Calcium	ppm	ASTM D5185(m)	1070	1259	1061	1116
	Phosphorus	ppm	ASTM D5185(m)	1150	1043	972	1020
	Zinc	ppm	ASTM D5185(m)	1270	1289	1192	1209
	Sulfur	ppm	ASTM D5185(m)	2060	2458	2293	2481
	Ovidation	Al / d	ACTM D7414*	. 25	24.2	22.6	22 E

Oxidation

Visc @ 100°C cSt

Abs/.1mm ASTM D7414* >25

ASTM D7279(m) 15.4

FLUID CONDI

Submitted By: Scott Ewan Page 1 of 2

23.5

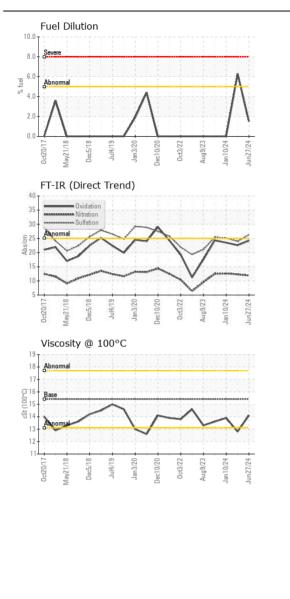
13.9

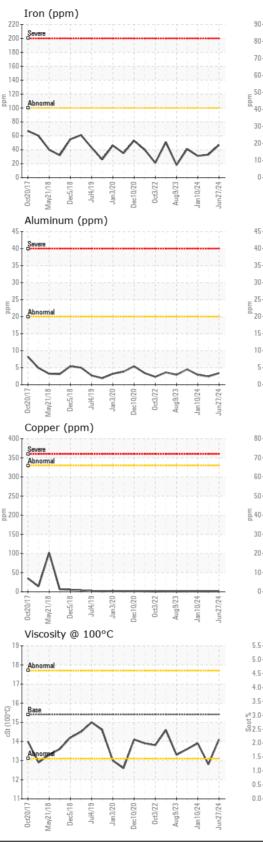
22.6

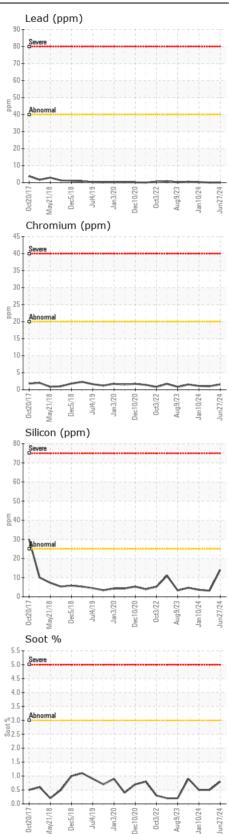
12.8

24.2

14.1







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received : GFL0122325 : 03 Jul 2024 Lab Number : 02645166 Tested : 04 Jul 2024 ISO 17025:2017 Unique Number : 5802705 Accredited : 04 Jul 2024 - Wes Davis Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) 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.

GFL Environmental - 217 - Aurora 14131 BAYVIEW AVE, AURORA YARD AURORA, ON CA L4G 0K6 Contact: Mike Havens MHavens@gflenv.com T: F: (905)713-2445

0