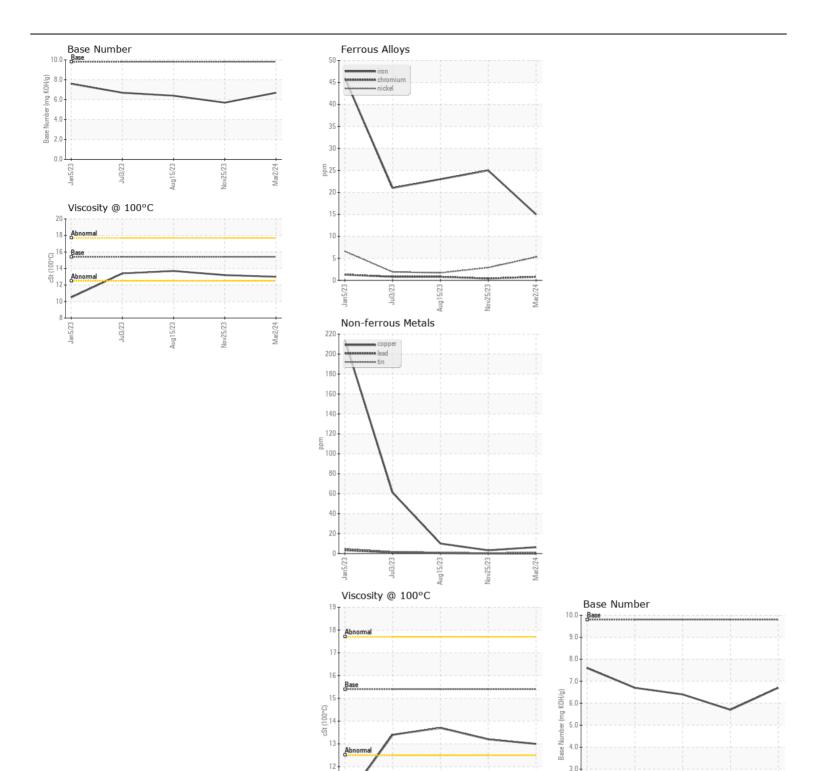
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 



913037 Component Diesel Engine

PETRO CANADA DURON SHP	15W40 ( C	GAL)			.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0044800	GFL0023439	GFL0060408
Resample at the next service interval to monitor.	Sample Date		Client Info		02 Mar 2024	25 Nov 2023	15 Aug 2023
	Machine Age	hrs	Client Info		3664	3241	2466
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>120	15	25	23
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		5	3	2
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	1	2
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		6	3	10
	Tin	ppm	ASTM D5185m	>15	1	<1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	10	7
	Potassium	ppm	ASTM D5185m		4	7	5
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 O.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>4	0.6	0.8	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	10.1	9.3
	Sulfation	Abs/.1mm	*ASTM D7415		19.0	22.0	20.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	4
TEGID CONDITION	Boron	ppm	ASTM D5185m	0	10	3	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		57	56	61
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		853	852	951
	Calcium	ppm	ASTM D5185m		1077	1021	1050
	Phosphorus	ppm	ASTM D5185m		1015	952	1016
	Zinc	ppm	ASTM D5185m		1238	1178	1296
	Sulfur	ppm	ASTM D5185m		3210	2977	2900
	Oxidation	Abs/.1mm	*ASTM D7414		14.2	17.8	17.1
	Base Number (BN)		ASTM D2896		6.7	5.7	6.4
	Visc @ 100°C	cSt	ASTM D445		13.0	13.2	13.7
	*100 @ 100 O	001	, to the batto	10.7	13.0	10.2	10.7







Certificate L2367

Laboratory Sample No.

: GFL0044800 Lab Number : 06122215 Unique Number: 10936366 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Mar 2024 **Tested** 

Aug15/23

: 20 Mar 2024 Diagnosed : 20 Mar 2024 - Wes Davis

Mar2/24 -

GFL Environmental - 660S - Roanoke

Aug15/23

2045 LEE HWY Cloverdale, VA US 24077

Contact: DELBERT BEASLEY

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:

F: