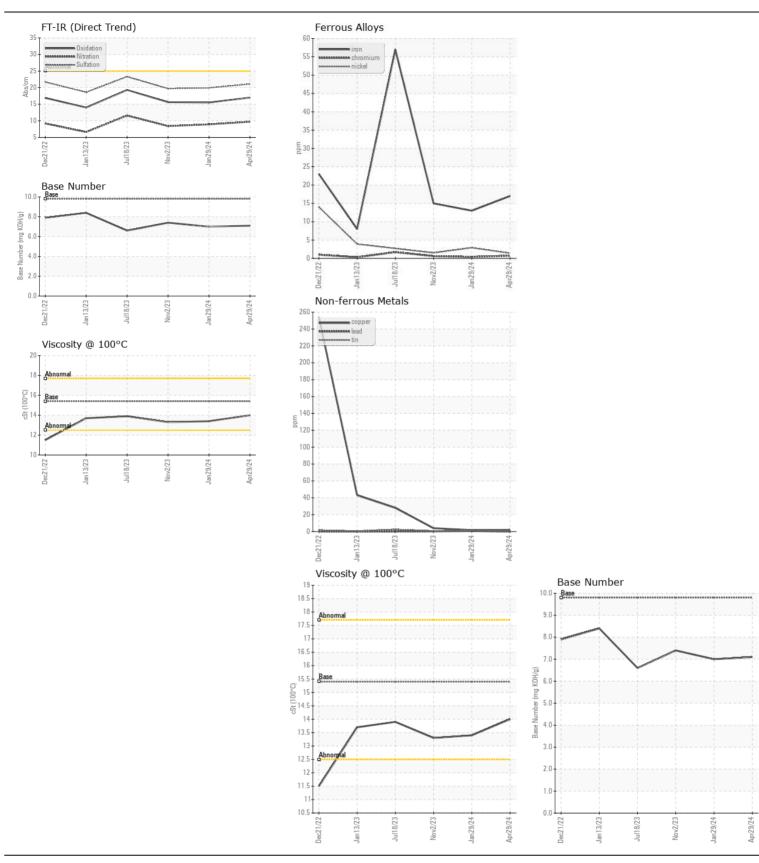


Machine Id 913013 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 QTS)

PETRO CANADA DURON SHP	15440 (40 (	G (3)			.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0077743	GFL0077787	GFL0077777
Resample at the next service interval to monitor.	Sample Date		Client Info		29 Apr 2024	29 Jan 2024	02 Nov 2023
	Machine Age	hrs	Client Info		4194	3484	2872
	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	nnm	ASTM D5185m	. 120	17	13	15
WEAN	Iron Chromium	ppm	ASTM D5185m		<1 <1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1	3	2
	Titanium	ppm	ASTM D5185m		- <1	0	<1
	Silver	ppm	ASTM D5185m		<1	<1	<1
	Aluminum	ppm	ASTM D5185m		2	2	2
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		2	2	4
	Tin	ppm	ASTM D5185m		1	1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	5	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	3	6
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.8	0.7	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	9.7	8.9	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		21.1	19.9	19.7
	Silt Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE NONE	NONE
	Appearance	scalar scalar	*Visual *Visual	NONE NORML	NONE NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	5	1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		<1	9	3
	Barium	ppm	ASTM D5185m		0	0	5
	Molybdenum	ppm	ASTM D5185m		60	60	60
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		930	919	875
	Calcium	ppm	ASTM D5185m		1054	1036	1055
	Phosphorus	ppm	ASTM D5185m		1012	1017	1014
	Zinc	ppm	ASTM D5185m		1248	1237	1161
	Sulfur	ppm Abo/1mm	ASTM D5185m		2890	2806	3117
	Oxidation	Abs/.1mm	*ASTM D7414		17.0	15.5	15.6
	Base Number (BN) Visc @ 100°C	cSt	ASTM D2896 ASTM D445		7.1	7.0 13.4	7.4
	visc @ 100°C	COL	A3 1 W D445	15.4	14.0	13.4	13.3







Certificate L2367

Laboratory Sample No.

: GFL0077743 Lab Number : 06178574 Unique Number : 11029900 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 May 2024 **Tested** 

: 15 May 2024 : 15 May 2024 - Wes Davis Diagnosed

GFL Environmental - 650 - West Point Hauling 7825 Parham Landing Road

West Point, VA US 23181

Contact: Jason Smith jasonsmith@gflenv.com

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)

F:

T: (804)843-9288