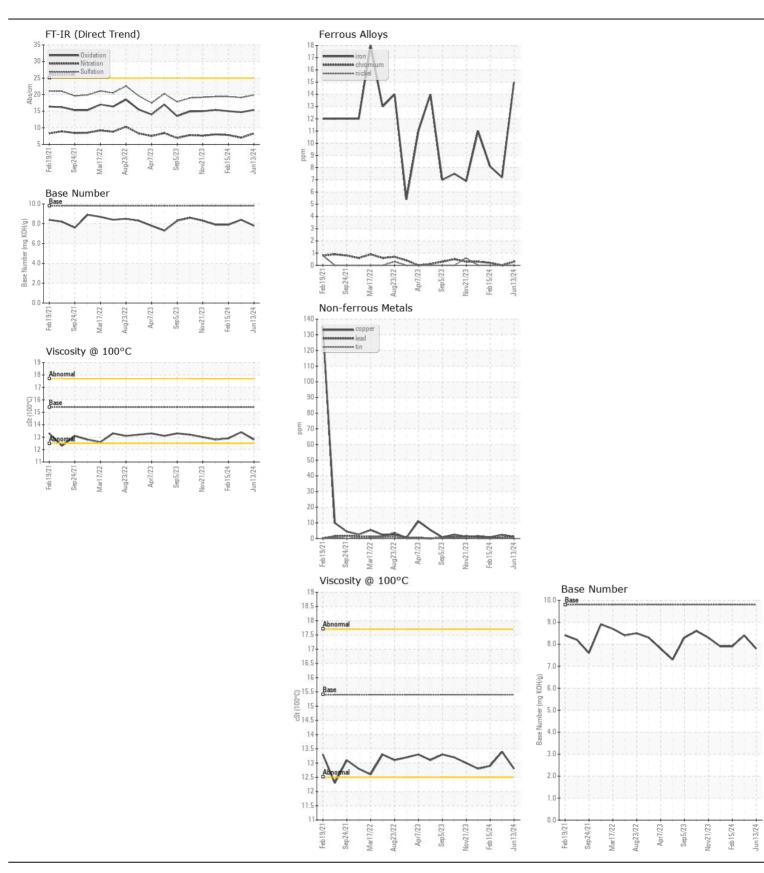
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Machine Id

929014-1268

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (48 QTS)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0120896	GFL0110324	,
	Sample Date		Client Info		13 Jun 2024	08 Apr 2024	15 Feb 2024
	Machine Age	hrs	Client Info		15016	14416	14058
	Oil Age	hrs	Client Info		14416	580	604
	Filter Age	hrs	Client Info		600	580	604
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR							
WEAR	Iron	ppm	ASTM D5185m		15	7	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	2	1
	Lead	ppm	ASTM D5185m		2	<1	<1
	Copper	ppm	ASTM D5185m		1	2	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m	NONE	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	9	4	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	<1	0
	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		0.4	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.0	7.8
	Sulfation	Abs/.1mm	*ASTM D7415		19.9	19.1	19.4
	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
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	3	3
	Boron	ppm	ASTM D5185m	0	8	11	6
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	0
	Molybdenum	ppm	ASTM D5185m	60	60	62	55
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	934	988	823
	Calcium	ppm	ASTM D5185m	1070	1106	1118	969
	Phosphorus	ppm	ASTM D5185m	1150	1080	1106	958
	Zinc	ppm	ASTM D5185m	1270	1280	1304	1137
	Sulfur	ppm	ASTM D5185m	2060	3567	3697	2674
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	14.7	15.0
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	8.4	7.9
	Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.4	12.9







Certificate L2367

Laboratory

Sample No.

: GFL0120896 Lab Number : 06217589 Unique Number : 11090453 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024 : 24 Jun 2024 **Tested**

Diagnosed : 24 Jun 2024 - Wes Davis

GFL Environmental - 622 - Traverse City Hauling

160 Hughes Dr Traverse City, MI US 49686

Contact: GARY BREWER

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: