WEAR CONTAMINATION **FLUID CONDITION**

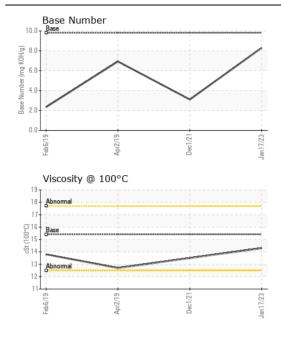
NORMAL NORMAL NORMAL

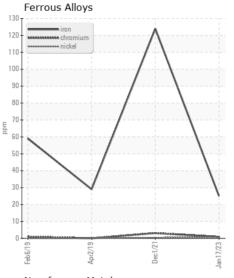
Machine Id

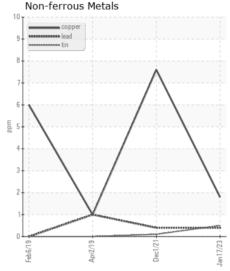
227055-632109

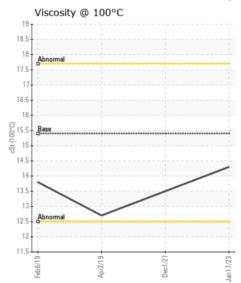
Component
Diesel Fngine

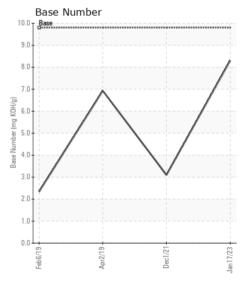
Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (GAL))						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0064663	GFL0037286	GFLI-X11527
Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.	Sample Date		Client Info		17 Jan 2023	01 Dec 2021	02 Apr 2019
	Machine Age	hrs	Client Info		5296	4018	20288
	Oil Age	hrs	Client Info		0	0	450
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	25	<u> </u>	29
	Chromium	ppm	ASTM D5185m	>20	<1	3	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m		5	14	3
	Lead	ppm	ASTM D5185m		<1	<1	1
	Copper	ppm	ASTM D5185m	>330	2	8	1
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	16	5
CONTAMINATION	Potassium	ppm	ASTM D5185m		<1	1	0
There is no indication of any contamination in the oil.	Fuel	PP	WC Method		<1.0	<1.0	1.1
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	1	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.9	13.1	7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	29.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	1
TEGIB CONDITION	Boron	ppm	ASTM D5185m	0	8	10	268
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		61	68	110
	Manganese	ppm	ASTM D5185m		<1	2	0
	Magnesium	ppm	ASTM D5185m		929	278	633
	Calcium	ppm	ASTM D5185m		1063	1993	1408
	Phosphorus	ppm	ASTM D5185m		1014	1042	633
	Zinc	ppm	ASTM D5185m		1272	1158	711
	Sulfur	ppm	ASTM D5185m		3625	2732	
	Oxidation	Abs/.1mm	*ASTM D7414		17.5	28.4	13
	Base Number (BN)				8.3	<u>△</u> 3.1	6.93
	Visc @ 100°C	cSt	ASTM D445		14.3	13.5	12.7















Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0064663 : 05746007 : 10305611

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 23 Jan 2023 Diagnosed : 24 Jan 2023

Diagnostician : Wes Davis

GFL Environmental - 814 - Little Rock Hauling 4005 Hwy 161 N.

Little Rock, AR US 72117 Contact: Brad Koenig

bkoenig@gflenv.com T:

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: