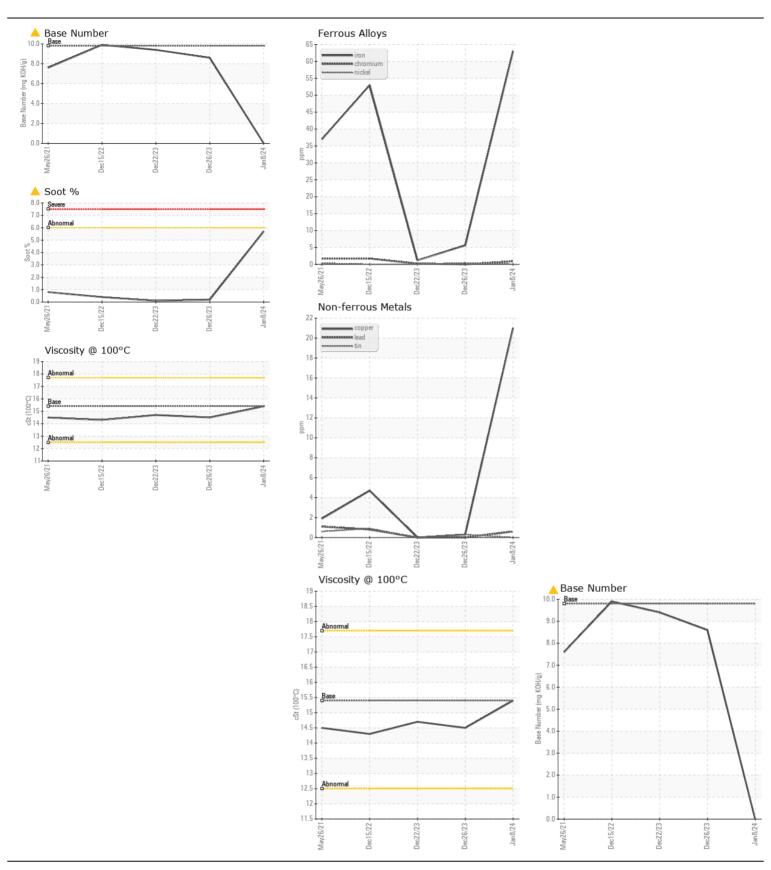
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL ABNORMAL



Machine Id 4566M Diesel Engine

PETRO CANADA DURON SI							
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0108810		GFL0105785
	Sample Date		Client Info		08 Jan 2024	26 Dec 2023	22 Dec 2023
	Machine Age	hrs	Client Info		19215	19342	19213
	Oil Age	hrs	Client Info		19342	17455	17455
	Filter Age	hrs	Client Info		12075	12075	17455
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	63	6	1
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>2	0	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	6	2
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>330	21	<1	0
	Tin	ppm	ASTM D5185m		0	<1	0
	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	nnm	ASTM D5185m	. 25	6	3	
CONTAINMATION	Potassium	ppm	ASTM D5165III		6 <1	ى <1	5
There is an abnormal amount of solids and carbon present in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>></i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\6	▲ 5.7	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	17.3	5.2	4.3
	Sulfation	Abs/.1mm	*ASTM D7415		32.2	18.1	17.5
	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			>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		8	<1	22
The BN level is low.	Boron	ppm	ASTM D5185m		<1	1	2
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		53	57	57
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		870	979	887
	Calcium	ppm	ASTM D5185m		978	1094	989
	Phosphorus	ppm	ASTM D5185m		866	1042	956
	Zinc	ppm	ASTM D5185m		1207	1233	1149
	Sulfur	ppm	ASTM D5185m		2293	3132	3265
	Oxidation	Abs/.1mm	*ASTM D7414		22.5	13.8	12.8
	Base Number (BN)				<u> </u>	8.6	9.4
	Visc @ 100°C	cSt	ASTM D445	15.4	15.4	14.5	14.7







Certificate L2367

Laboratory Sample No. Lab Number

: GFL0108810 : 06057703 : 10823652 **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 11 Jan 2024 Diagnosed : 12 Jan 2024

Diagnostician : Don Baldridge GFL Environmental - 415 - Michigan East 6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

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)