WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

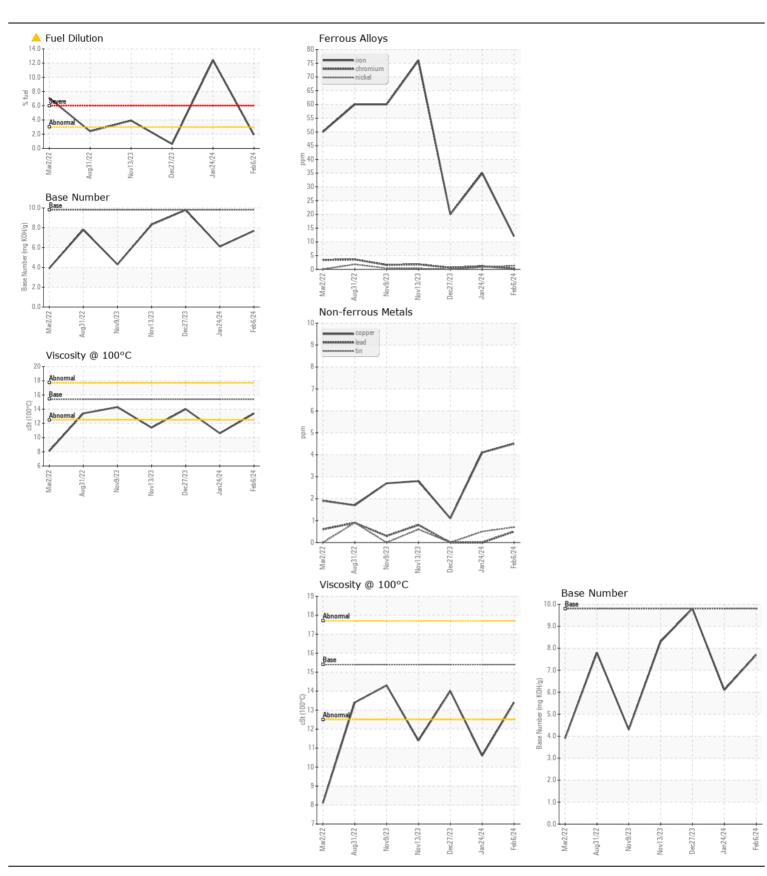
MARGINAL

NORMAL



Machine Id
4630M
Component
Diesel Engine

PETRO CANADA DURON SHP	15W40 (36 (	QTS)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number	COM	Client Info	Little	GFL0110091		GFL0104280
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Date		Client Info		06 Feb 2024	24 Jan 2024	27 Dec 2023
	Machine Age	hrs	Client Info		19752	19639	181276
	Oil Age	hrs	Client Info		600	600	162265
	Filter Age	hrs	Client Info		600	600	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				MARGINAL	SEVERE	NORMAL
WEAD			ACTM DE10E	75	40	٥٢	00
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		12	35	20
	Chromium Nickel	ppm	ASTM D5185m		<1	1 .4	<1 0
		ppm	ASTM D5185m		1	<1 0	
	Titanium Silver	ppm	ASTM D5185m		<1 0	0	<1 0
	Aluminum	ppm	ASTM D5185m ASTM D5185m		1	4	5
	Lead	ppm	ASTM D5185m		- I <1	0	0
	Copper	ppm	ASTM D5185m		4	4	1
	Tin	ppm	ASTM D5185m		<b>~</b> <1	<1	0
	Vanadium	ppm	ASTM D5185m	7 7	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	5	20	10
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m	>20	2	2	1
	Fuel	%	ASTM D3524	>3.0	<u> </u>	12.4	0.6
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.7	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	10.6	5.3
	Sulfation	Abs/.1mm	*ASTM D7415		19.5	21.1	17.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE NORML	NONE NORML	NONE NORML	NONE NORML
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
	Emaisined Water		• • • • • • • • • • • • • • • • • • •				IVLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	8	5
The DN requit indicates that there is quitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	0	<1	<1	5
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	<1	<1	0
	Molybdenum	ppm	ASTM D5185m		57	45	59
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		879	716	942
	Calcium	ppm	ASTM D5185m		988	793	1096
	Phosphorus	ppm	ASTM D5185m		931	758	1032
	Zinc	ppm	ASTM D5185m		1158	935	1255
	Sulfur	ppm	ASTM D5185m		2890	1996	3226
	Oxidation	Abs/.1mm	*ASTM D7414		15.7	20.1	13.1
	Base Number (BN)				7.7	6.1	9.8
	Visc @ 100°C	cSt	ASTM D445	15.4	13.4	10.6	14.0







Laboratory Sample No.

Lab Number : 06083390

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0110091

Unique Number : 10870835

Received **Tested** Diagnosed

: 09 Feb 2024 - Wes Davis Test Package: FLEET (Additional Tests: PercentFuel)

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)

: 08 Feb 2024

: 09 Feb 2024

GFL Environmental - 410 - Michigan West

39000 Van Born Rd

Wayne, MI US 48184 Contact: Belal Dgheish

bdgheish@gflenv.com T: (734)714-2340