WEAR CONTAMINATION FLUID CONDITION

NORMAL

MARGINAL

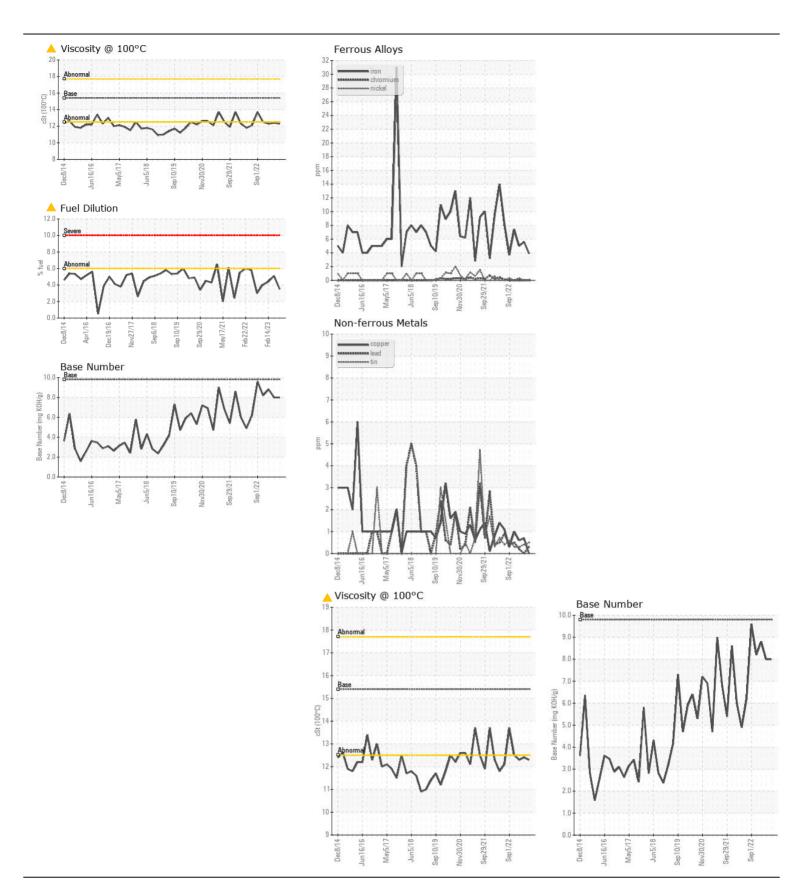
ABNORMAL



(YA122655) GFL035
Machine Id
2583

Component Diesel Engine

PETRO CANADA DURON SHP	15W40 (11 (	GAL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0085227	GFL0071568	,
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		11 Jan 2024	15 Aug 2023	14 Feb 2023
	Machine Age	mls	Client Info		367050	367050	367050
	Oil Age	mls	Client Info		600	600	600
	Filter Age	mls	Client Info		600	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	SEVERE	ABNORMAI
WEAR	Iron	ppm	ASTM D5185m	>100	4	6	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	0	0
	Nickel	ppm	ASTM D5185m	>2	<1	0	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	2	4	1
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	0	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	7	5
	Potassium	ppm	ASTM D5185m	>20	1	<1	2
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524	>6.0	<b>4</b> 3.5	<b>5.1</b>	<b>4.4</b>
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.2	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	10.5	8.7	8.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	18.4	19.5
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	3	2
	Boron	ppm	ASTM D5185m	0	28	3	6
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		41	60	63
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		530	927	895
	Calcium	ppm	ASTM D5185m		1542	1057	1155
	Phosphorus	ppm	ASTM D5185m		782	994	1015
	Zinc	ppm	ASTM D5185m		902	1200	1292
	Sulfur	ppm	ASTM D5185m	2060	2382	3553	3642
	Oxidation	Abs/.1mm	*ASTM D7414		21.8	15.1	14.1
	Base Number (BN)				8.0	8.0	8.8
	Visc @ 100°C	cSt	ASTM D445		<b>12.3</b>	<u> </u>	<u>12.3</u>







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: 10832212

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0085227 : 06060830

Recieved Diagnosed

: 16 Jan 2024 : 18 Jan 2024 Diagnostician : Don Baldridge

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)

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