WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



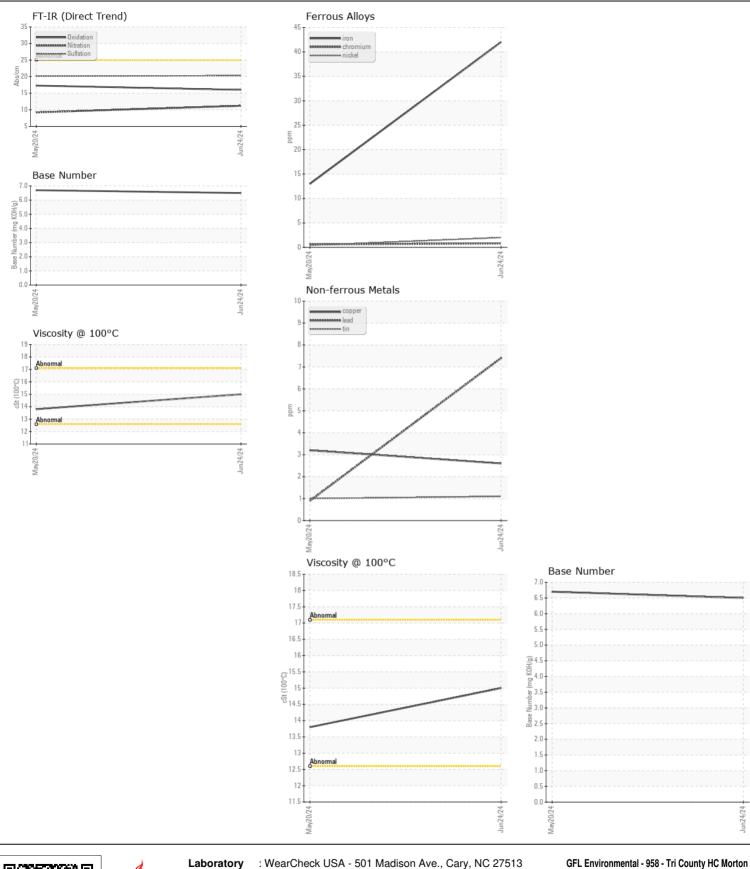
(48016R) {UNASSIGNED}

421044

Diesel Engine

PETRO CANADA 15W40 (--- GAL)

PETRO CANADA 15W40 (GF	` - /						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0119870	GFL0119862	
Resample at the next service interval to monitor.	Sample Date		Client Info		24 Jun 2024	20 May 2024	
	Machine Age	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		540	500	
	Filter Age	hrs	Client Info		540	500	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>120	42	13	
	Chromium	ppm	ASTM D5185m	-	- <u>-</u> <1	<1	
	Nickel	ppm	ASTM D5185m		2	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		<1	<1	
	Aluminum	ppm	ASTM D5185m		4	2	
	Lead	ppm	ASTM D5185m		7	<1	
	Copper	ppm	ASTM D5185m		3	3	
	Tin	ppm	ASTM D5185m		1	1	
	Vanadium	ppm	ASTM D5185m	710	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
			v 150aa1	TVOTVE	·····	14014	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12	5	
	Potassium	ppm	ASTM D5185m	>20	6	4	
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>4	0.6	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	11.2	9.2	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	20.1	
	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		7	1	
I LOID CONDITION	Boron	ppm	ASTM D5185m		66	<1	
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	
	Molybdenum	ppm	ASTM D5185m		71	64	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m		69	1031	
	Calcium	ppm	ASTM D5185m		2406	1150	
	Phosphorus	ppm	ASTM D5185m		1095	1083	
	Zinc	ppm	ASTM D5185m		1341	1366	
	Sulfur	ppm	ASTM D5185m		4596	3507	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	17.3	
	Base Number (BN)		ASTM D2896	0	6.5	6.7	
	Visc @ 100°C	cSt	ASTM D445		15.0	13.8	
	1.00 @ 100 0				.5.0		





Certificate L2367

Laboratory Sample No.

: GFL0119870 Lab Number : 06223043 Unique Number : 11101240 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Jun 2024 **Tested**

: 28 Jun 2024 Diagnosed

: 28 Jun 2024 - Wes Davis

1090 W. Jefferson St.

Morton, IL US 61550 Contact: Bryan Link blink@gflenv.com

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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F: