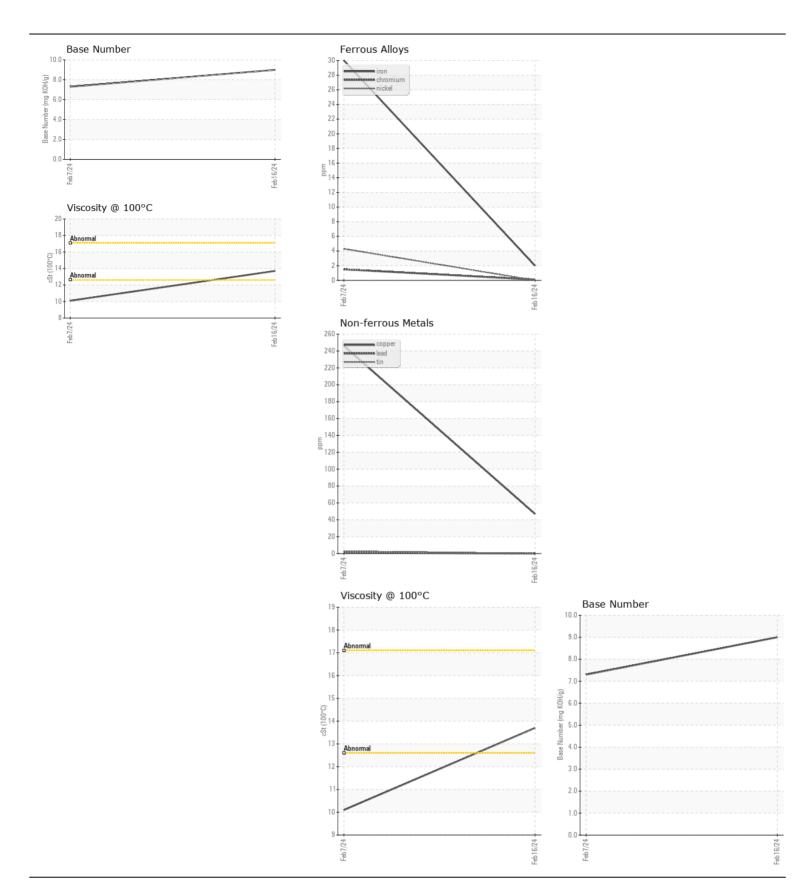


Machine Id
414073
Component
1 Diesel Engine
Fluid

PETRO CANADA 15W40 (--- GAL)

PETRO CANADA 15W40 (GA	<u>L)</u>						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number	COM	Client Info	Littleyton	GFL0112717	GFL0112761	
Resample at the next service interval to monitor.	Sample Date		Client Info		16 Feb 2024	07 Feb 2024	
	Machine Age	hrs	Client Info		516	434	
	Oil Age	hrs	Client Info		0	434	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed	1113	Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status		Client into		NORMAL	ABNORMAL	
					NONWAL		
WEAR	Iron	ppm	ASTM D5185m	>120	2	30	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1	2	
	Nickel	ppm	ASTM D5185m		0	4	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		<1	1	
	Aluminum	ppm	ASTM D5185m		3	14	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		47	246	
	Tin	ppm	ASTM D5185m		0	3	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	11	△ 69	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	39	
	Fuel		WC Method	>3.0	<1.0	0.5	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>4	0.1	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	5.5	10.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	26.0	
	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	
ELLUD COMPITION						_	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		21	245	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		59	109	
	Manganese	ppm	ASTM D5185m		<1	4	
	Magnesium	ppm	ASTM D5185m		863	647	
	Calcium	ppm	ASTM D5185m		973	1277	
	Phosphorus	ppm	ASTM D5185m		907	660	
	Zinc	ppm	ASTM D5185m		1128	794	
	Sulfur	ppm	ASTM D5185m		2788	2595	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	23.9	
	Base Number (BN)				9.0	7.3	
	Visc @ 100°C	cSt	ASTM D445		13.7	▲ 10.1	







Certificate L2367

Laboratory

Sample No.

: GFL0112717 Lab Number : 06100856 Unique Number: 10899086 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 **Tested** : 27 Feb 2024

Diagnosed : 27 Feb 2024 - Wes Davis

GFL Environmental - 654 - Richmond Hauling

11800 Lewis Road Chester, VA US 23831

Contact: Jimmy Mayes

jmayes@gflenv.com T:

* - 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: