

OIL ANALYSIS REPORT

NORMAL





Sample Rating Trend

· · ·	, 		g2014 Dec201	4 May2015 Nov2018 D	lec2019 Mar2021 Oct2021 Nov20	22 Nov2023	
	SAMPLE INFORMA	TION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0099756	GFL0073291	GFL0073304
ended at this time.	Sample Date		Client Info		27 Feb 2024	08 Nov 2023	20 Jun 2023
interval to monitor.	Machine Age h	rs	Client Info		600	600	600
	Oil Age h	rs	Client Info		600	600	600
ew component	Oil Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
s no indication of	CONTAMINATIO	N	method	limit/base	current	history1	history2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
re is suitable ne condition of the	WEAR METALS		method	limit/base	current	history1	history2
2.	lron p	pm	ASTM D5185m	>85	8	29	36
	Chromium p	pm	ASTM D5185m	>5	<1	<1	1
	Nickel p	pm	ASTM D5185m	>4	2	0	<1
	Titanium p	pm	ASTM D5185m	>2	<1	0	<1
	Silver p	pm	ASTM D5185m	>2	0	0	0
	Aluminum p	pm	ASTM D5185m	>40	2	6	18
	Lead p	pm	ASTM D5185m	>10	0	0	<1
	Copper p	pm	ASTM D5185m	>100	<1	14	87
	Tin p	pm	ASTM D5185m	>4	<1	<1	<1
	Vanadium p	pm	ASTM D5185m		0	0	0
	Cadmium p	pm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron p	pm	ASTM D5185m	0	7	19	12
	Barium p	pm	ASTM D5185m	0	0	0	0
	Molybdenum p	pm	ASTM D5185m	60	57	81	75
	Manganese p	pm	ASTM D5185m	0	<1	<1	<1
	Magnesium p	pm	ASTM D5185m	1010	776	880	757
	Calcium p	pm	ASTM D5185m	1070	896	1055	1196
	Phosphorus p	pm	ASTM D5185m	1150	920	977	936
	Zinc p	pm	ASTM D5185m	1270	1118	1199	1128
	Sulfur p	pm	ASTM D5185m	2060	2865	2986	3041
	CONTAMINANTS	S	method	limit/base	current	history1	history2
	Silicon p	pm	ASTM D5185m	>15	5	6	9
	Sodium p	pm	ASTM D5185m		3	0	0
	Potassium p	pm	ASTM D5185m	>20	1	2	5
	Fuel %	6	ASTM D3524	>5	0.2	<1.0	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	6	*ASTM D7844	>3	0.4	1.9	2.5
	Nitration A	lbs/cm	*ASTM D7624	>20	6.3	7.5	9.9
	Sulfation Al	bs/.1mm	*ASTM D7415	>30	17.4	19.6	22.7
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Oxidation Al	bs/.1mm	*ASTM D7414	>25	12.5	11.8	13.8
	Base Number (BN) m	g KOH/g	ASTM D2896	9.8	6.1	8.5	7.8
		• •					

Area (H904567) 2487

Component **Diesel Engine**

Fluid PETRO CANADA DURON SHP 15W40 (10 GAL)

DIAGNOSIS

Recommendation

No corrective action is recomm Resample at the next service i

Wear

Metal levels are typical for a ne breaking in.

Contamination

Fuel content negligible. There any contamination in the oil.

Fluid Condition

The BN result indicates that the alkalinity remaining in the oil. oil is suitable for further service



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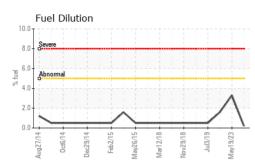
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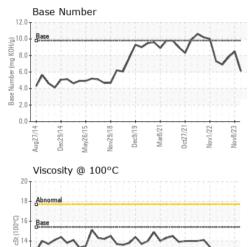
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20.4 C v29/18 P119 Aar8/21

Dec29/1

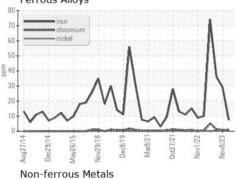
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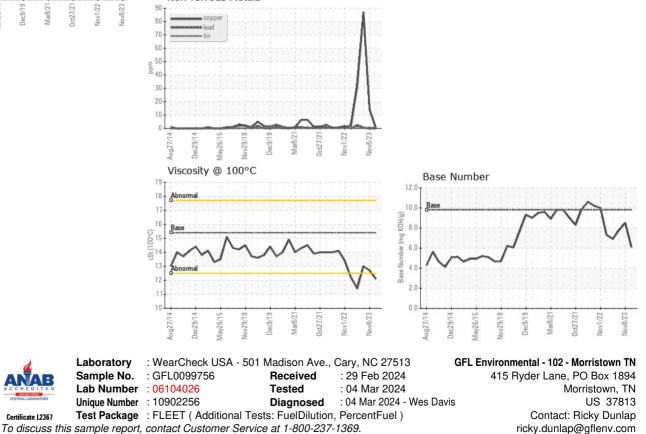




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.1	12.7	13.0
GRAPHS						

Ferrous Alloys





* - 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)

Vov1/22

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Certificate L2367

Submitted By: Ricky Dunlap Page 2 of 2

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