

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 812101

Component **Diesel Engine**

Elui PETRO CANADA DURON SHP 15W40 (--- GA

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

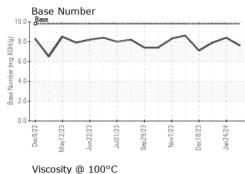
Fluid Condition

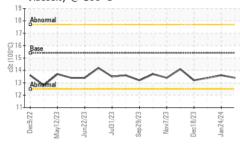
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		Jec2022 May	2023 Jun2023 Jul2023	Sep2023 Nov2023 Dec2023	Jan2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111101	GFL0103526	GFL0103509
Sample Date		Client Info		07 Feb 2024	24 Jan 2024	05 Jan 2024
Achine Age	hrs	Client Info		7082	7032	6887
Dil Age	hrs	Client Info		345	295	150
Dil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Vater		WC Method		NEG	NEG	NEG
Alycol		WC Method	20.2	NEG	NEG	NEG
•	0		l:			
WEAR METAL			limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>110	6	3	3
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Fitanium	ppm	ASTM D5185m	0	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm		>25	3	3	2
ead	ppm	ASTM D5185m	>45	<1	<1	0
Copper	ppm		>85	<1	0	<1
Tin (ppm	ASTM D5185m	>4	<1	<1	0
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	13	20	14
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	91	86	84
Manganese	ppm	ASTM D5185m	0	0	<1	0
<i>I</i> lagnesium	ppm	ASTM D5185m	1010	953	909	907
Calcium	ppm	ASTM D5185m	1070	1160	1033	1030
Phosphorus	ppm	ASTM D5185m	1150	1038	985	920
Zinc	ppm	ASTM D5185m	1270	1238	1215	1240
Sulfur	ppm	ASTM D5185m	2060	3010	2935	2755
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	3	3	3
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	10	10	11
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>3	0.3	0.2	0.3
Soot %				6.9	6.3	6.6
	Abs/cm	ASTIVI D7624				
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>30	18.7	18.5	19.1
Nitration	Abs/.1mm	*ASTM D7415		18.7		19.1 history2
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.5	

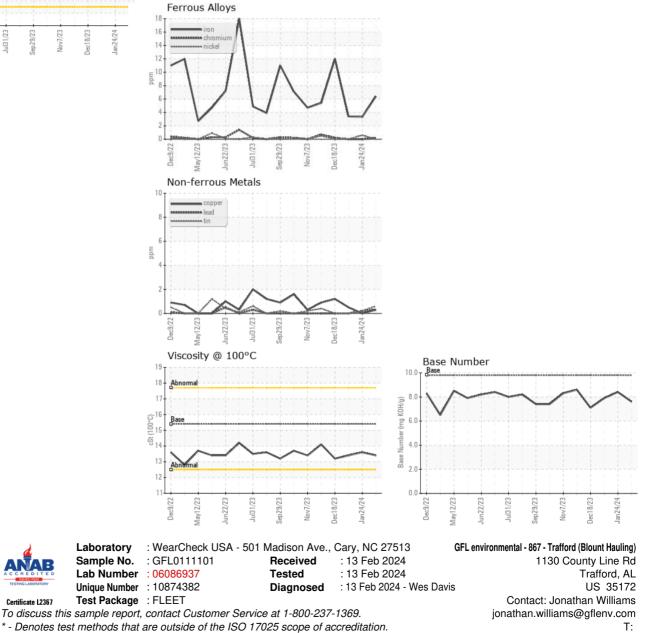


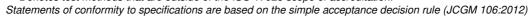
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VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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	13.4	13.6	13.4
GRAPHS						





Certificate L2367

Submitted By: see also GFL868 - Chelsea Bryan

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