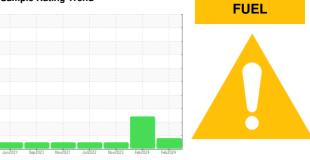


OIL ANALYSIS REPORT

Sample Rating Trend

limit/base



current

history1

history2

Since Contraction
A LANDAR

Machine Id Component

Fluid

Diesel Engine PETRO CANADA DURON SHP 15W40 (9 GAL)

SAMPLE INFORMATION method

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Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Resample)

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

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

		methou	iiiiii/base	Current	Thistory I	Thistory2
Sample Number		Client Info		GFL0106707	GFL0106705	GFL0097712
Sample Date		Client Info		22 Feb 2024	14 Feb 2024	02 Nov 2023
Machine Age	hrs	Client Info		14900	14899	14606
Oil Age	hrs	Client Info		0	293	700
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				MARGINAL	ABNORMAL	NORMAL
		un atta a d	line it /le e e e		Internet	history O
CONTAMINAT		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	18	13	6
Chromium	ppm	ASTM D5185m	>20	1	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		2	2	2
Lead	ppm	ASTM D5185m	>40	_ <1	<1	0
Copper	ppm	ASTM D5185m	>330	2	<1	9
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	7	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	52	64	62
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	849	977	976
Calcium	ppm	ASTM D5185m	1070	908	1000	1111
Phosphorus		ASTM D5185m	1150	892	1000	972
Zinc	ppm	ASTM D5185m	1270	1187	1258	1253
Sulfur	ppm	ASTM D5185m	2060	2644	3008	2689
	ppm			-		
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	8	6
Sodium	ppm	ASTM D5185m	00	4	<u> </u>	7
Potassium	ppm	ASTM D5185m	>20	2	2	0
Fuel	%	ASTM D3524	>3.0	<u> </u>	8 .3	<1.0
INFRA-RED		method	limit/base	current	history1	history2
		*ASTM D7844	>4	0.5	0.2	0.3
Soot %	%					
Soot % Nitration	% Abs/cm	*ASTM D7624	>20	8.9	9.8	7.5
			>20 >30	8.9 19.4	9.8 20.7	7.5 19.9
Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415				
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>30	19.4	20.7	19.9



> 13 Abnorma 12

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Base

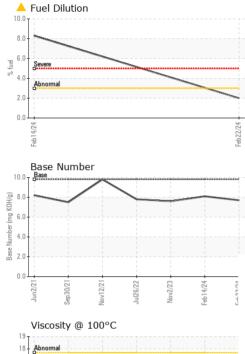
Jun2/21

sep 30/21

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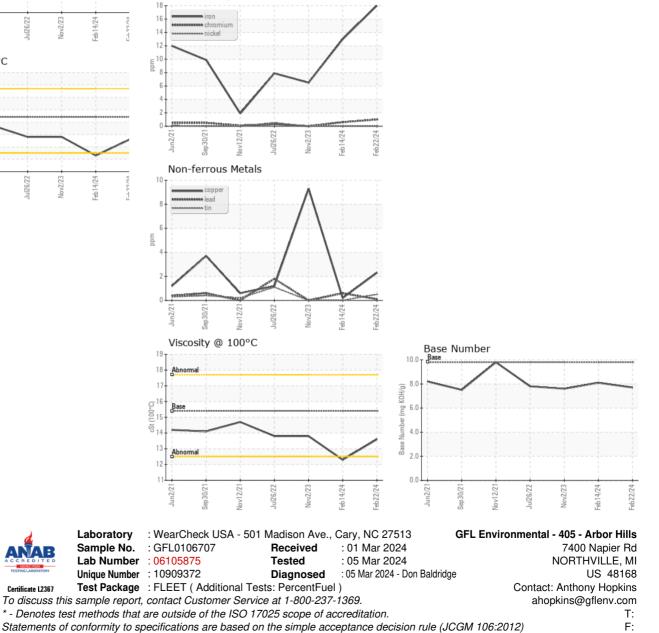
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OIL ANALYSIS REPORT



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	13.6	12.3	13.8
GRAPHS						

Ferrous Alloys



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