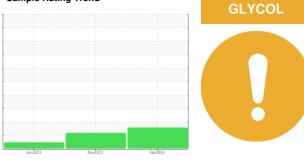


OIL ANALYSIS REPORT



SAMPLE INFORMATION method limit/base



Machine Id

Component **Diesel Engine**

Elui

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative.

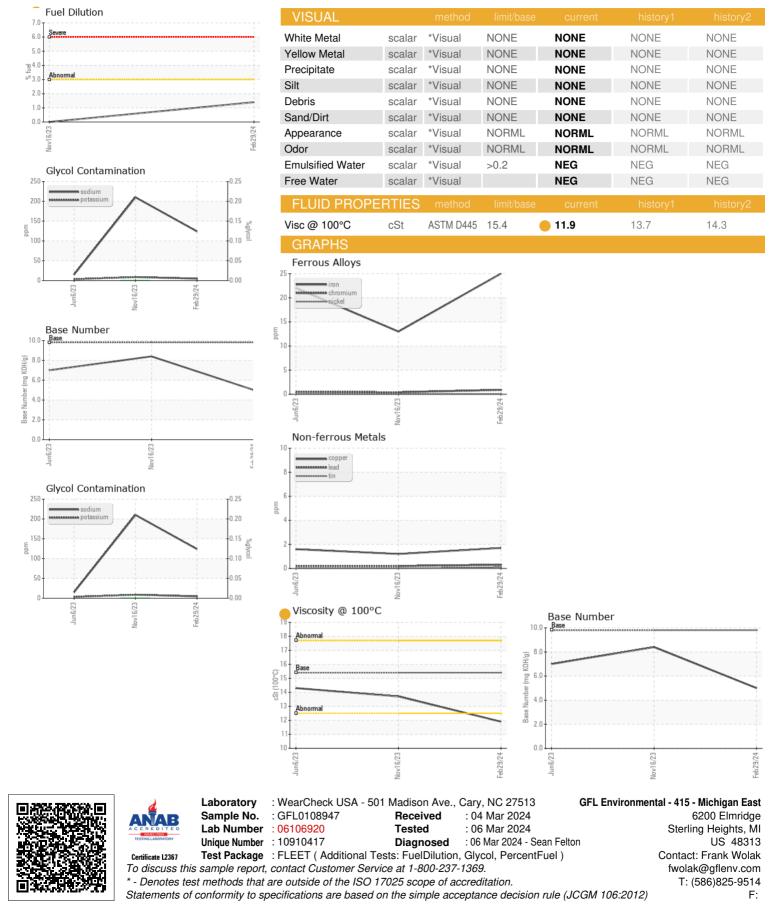
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

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Sample Number		Client Info		GFL0108947	GFL0101572	GFL0069838
Sample Date		Client Info		29 Feb 2024	16 Nov 2023	06 Jun 2023
Machine Age	hrs	Client Info		19504	19695	8185
Oil Age	hrs	Client Info		19695	0	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	NORMAL
				ATTENTION	ATTENTION	NOTIVIAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	25	13	22
Chromium		ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
	ppm			-		
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		4	1	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm		>330	2	1	2
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	6	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	66	60
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	723	892	987
Calcium	ppm	ASTM D5185m	1070	907	1049	1162
Phosphorus	ppm	ASTM D5185m	1150	952	958	1037
Zinc	ppm	ASTM D5185m	1270	1087	1168	1316
Sulfur	ppm	ASTM D5185m	2060	2499	2783	3429
CONTAMINAN	15	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	9	6	4
Sodium	ppm	ASTM D5185m		<mark> </mark> 124	210	15
Potassium	ppm	ASTM D5185m	>20	5	9	3
Fuel	%	ASTM D3524	>3.0	1.4	<1.0	<1.0
Glycol	%	*ASTM D2982		NEG	0.0	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.7	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.6	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	20.1	22.3
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	16.0	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.0	8.4	7.0
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OIL ANALYSIS REPORT



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