

### **OIL ANALYSIS REPORT**

Sample Rating Trend

VISCOSITY

# Machine Id 125009-829

Component Diesel Engine Fluid 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

Fuel content negligible. There is no indication of any contamination in the oil.

#### 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.

-	Aqr2021 Aqr2022 Feb2024						
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0061037	GFL0030388	GFL0018785	
Sample Date		Client Info		19 Feb 2024	08 Apr 2022	29 Apr 2021	
Machine Age	hrs	Client Info		9147	7351	6296	
Oil Age	hrs	Client Info		570	1055	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				ATTENTION	NORMAL	NORMAL	
CONTAMINATIO	NC	method	limit/base	current	history1	history2	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	7	22	8	
	ppm	ASTM D5185m	>20	<1	2	<1	
	ppm	ASTM D5185m	>4	0	<1	0	
	ppm	ASTM D5185m		31	10	68	
	ppm	ASTM D5185m	>3	0	0	<1	
	ppm	ASTM D5185m	>20	2	5	<1	
	ppm	ASTM D5185m	>40	3	9	<1	
	ppm	ASTM D5185m	>330	<1	1	<1	
	ppm		>15	<1	<1	<1	
	ppm	ASTM D5185m	210			0	
	ppm	ASTM D5185m		<1	0	<1	
	ppm	ASTM D5185m		0	0	0	
ADDITIVES	ppm	method	limit/base	current	history1	history2	
	ppm		0	52	27	96	
	ppm	ASTM D5185m		0	0	0	
	ppm	ASTM D5185m	60	39	37	11	
	ppm	ASTM D5185m	0	<1	<1	<1	
	ppm	ASTM D5185m	1010	708	533	420	
-	ppm	ASTM D5185m	1070	1284	1817	1696	
		ASTM D5185m	1150	977	788	942	
-	ppm	ASTM D5185m	1270	1119	966	1060	
	ppm	ASTM D5185m	2060	3086	2214	3101	
	ppm						
CONTAMINANT		method	limit/base	current	history1	history2	
	ppm	ASTM D5185m	>25	7	14	4	
	ppm	ASTM D5185m		4	7	5	
	ppm	ASTM D5185m	>20	4	11	6	
Fuel	%	ASTM D3524	>5	0.3	<1.0	<1.0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.7	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	8.6	13.8	10	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	27.2	22.3	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	28.0	18.2	
	mg KOH/g	ASTM D2896	9.8	8.2	7.3	8.2	
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Submitted By: Derek Kater



% fuel

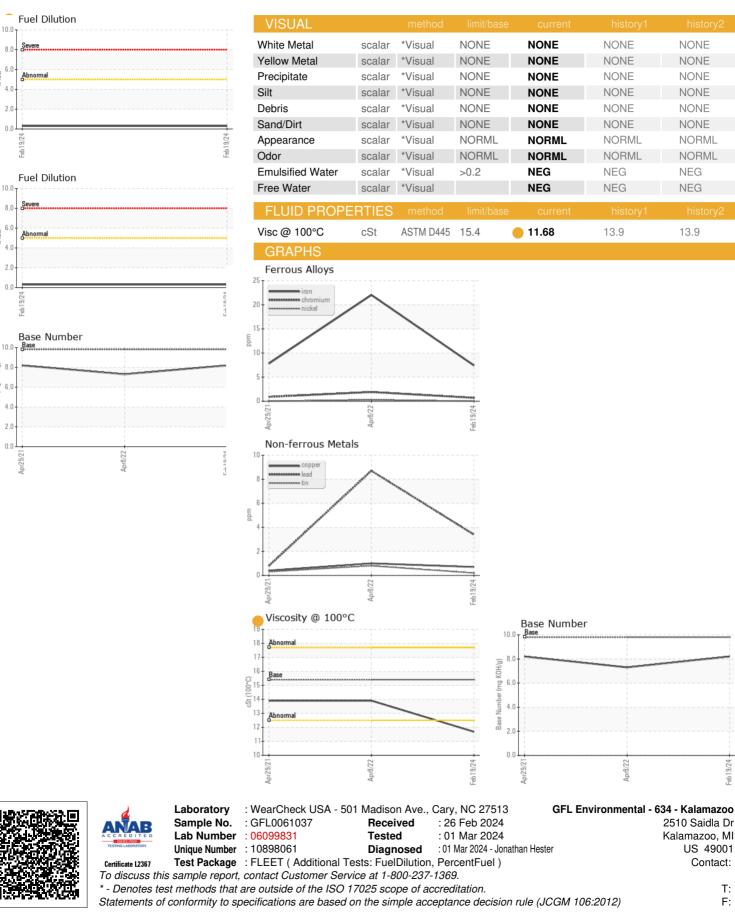
% fuel

(mg KOH/g)

Imber

Base

## **OIL ANALYSIS REPORT**



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