

### **OIL ANALYSIS REPORT**

Sample Rating Trend



# Machine Id 8266

Component Front Diesel Engine

Fluid PETRO CANADA DURON XL SYN BLEND 15W40 (22 LTR)

#### 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.

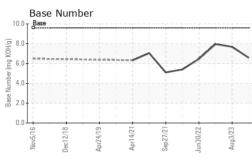
#### Fluid Condition

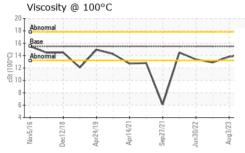
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

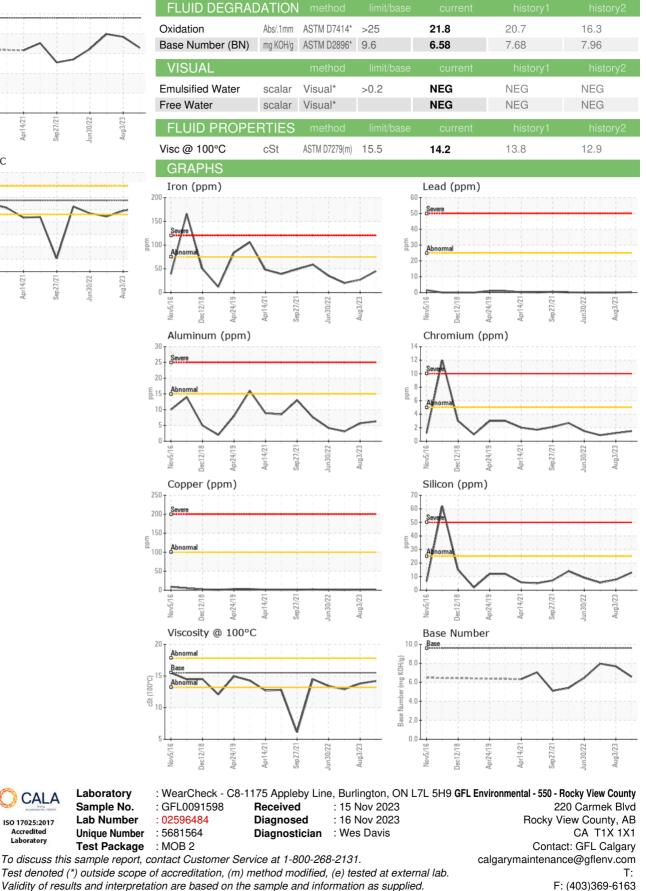
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091598	GFL0084308	GFL0057794
Sample Date		Client Info		09 Nov 2023	03 Aug 2023	26 Aug 2022
Machine Age	kms	Client Info		261823	14264	12628
Oil Age	kms	Client Info		0	403	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<b>2</b> .4	4.2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	45	27	20
Chromium	ppm	ASTM D5185(m)	>5	2	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>15	6	6	3
Lead	ppm	ASTM D5185(m)	>25	<1	0	0
Copper	ppm	ASTM D5185(m)	>100	2	1	<1
Tin	ppm	ASTM D5185(m)	>4	<1	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	2	5	2
Barium	ppm	ASTM D5185(m)	1	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	57	55	52
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	912	883	853
Calcium	ppm	ASTM D5185(m)	1070	1089	1113	948
Phosphorus	ppm	ASTM D5185(m)	1150	941	987	884
Zinc	ppm	ASTM D5185(m)	1270	1145	1136	1056
Sulfur	ppm	ASTM D5185(m)	2060	2251	2368	2275
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	13	8	6
Sodium	ppm	ASTM D5185(m)		7	7	6
Potassium	ppm	ASTM D5185(m)	>20	<1	3	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	1.3	1	0.7
Nitration	Abs/cm	ASTM D7624*	>20	11.3	10.1	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.6	23.7	20.5



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