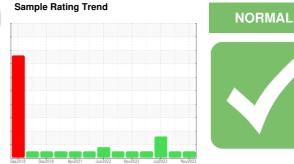


## **OIL ANALYSIS REPORT**





Machine Id 801108 Component **Diesel Engine** 

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

### DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Fluid

#### 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 INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091592	GFL0091653	GFL0084283
Sample Date		Client Info		19 Nov 2023	28 Sep 2023	17 Jul 2023
Machine Age	hrs	Client Info		13685	1240	12671
Oil Age	hrs	Client Info		419	0	592
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	20	27	36
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	8	10	8
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	1	1	2
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
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	2	2
Barium	ppm	ASTM D5185(m)	1	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	57	62	62
Manganese	ppm	ASTM D5185(m)	1	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	879	949	962
Calcium	ppm	ASTM D5185(m)	1070	974	1064	1034
Phosphorus	ppm	ASTM D5185(m)	1150	931	984	1026
Zinc	ppm	ASTM D5185(m)	1270	1125	1204	1181
Sulfur	ppm	ASTM D5185(m)	2060	2296	2446	2338
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	10	15	<b>A</b> 36
Sodium	ppm	ASTM D5185(m)		86	84	114
Potassium	ppm	ASTM D5185(m)	>20	10	14	8
Glycol	%	ASTM D7922*		0.0	0.0	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0.9	1.4
Nitration	Abs/cm	ASTM D7624*	>20	10.2	9.7	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2	21.8	24.2
Gallation					=0	



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