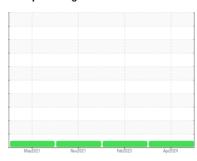


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id
301083
Component
Diesel Engine

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

## 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

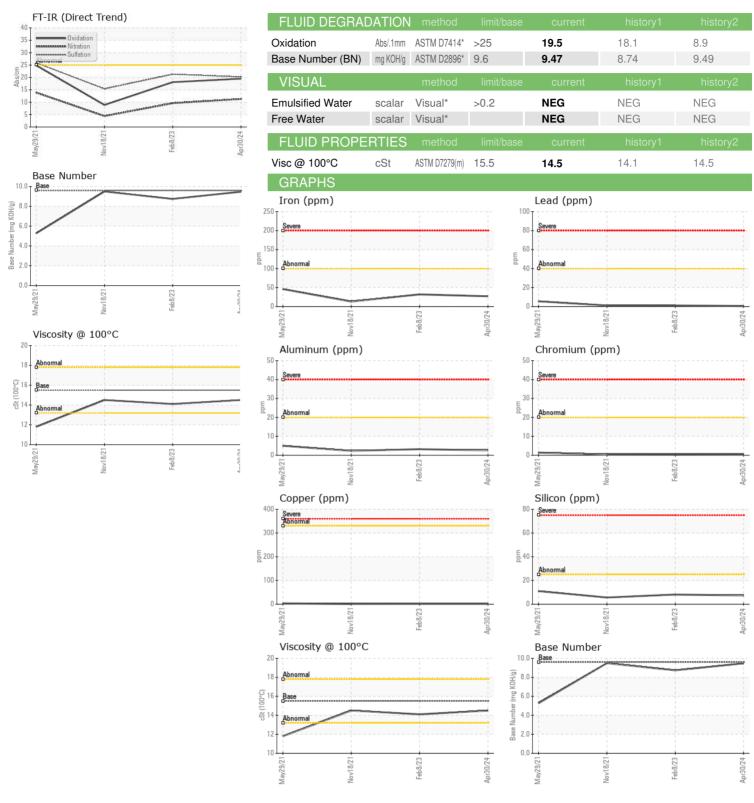
## **Fluid Condition**

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

5W40 ( GAL)		May204	21 N0VZUZ1	1802023 A	ptzuz4	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117270	GFL0070700	GFL0038450
Sample Date		Client Info		30 Apr 2024	08 Feb 2023	18 Nov 2021
Machine Age	kms	Client Info		308779	802467	333
Oil Age	kms	Client Info		0	5060	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	27	32	13
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	3	2
Lead	ppm	ASTM D5185(m)	>40	<1	1	1
Copper	ppm	ASTM D5185(m)	>330	2	2	1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<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	4	5
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	57	54
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	947	923	914
Calcium	ppm	ASTM D5185(m)	1070	1059	1058	1045
Phosphorus	ppm	ASTM D5185(m)	1150	981	1086	1017
Zinc	ppm	ASTM D5185(m)	1270	1158	1172	1169
Sulfur	ppm	ASTM D5185(m)	2060	2488	2628	2526
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	8	6
Sodium	ppm	ASTM D5185(m)		2	2	1
Potassium	ppm	ASTM D5185(m)	>20	<1	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	11.3	9.6	4.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	21.3	15.4



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0117270 Lab Number : 02633818 Unique Number : 5774971

Test Package : MOB 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County Received : 07 May 2024 **Tested** : 07 May 2024

Diagnosed

: 07 May 2024 - Wes Davis

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** Contact: GFL Calgary calgarymaintenance@gflenv.com

> T: F: (403)369-6163

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Submitted By: GFL Calgary