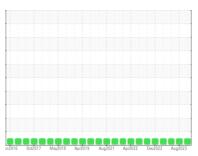


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 4514 Component

**Front Diesel Engine** 

PETRO CANADA DURON XL SYN BLEND 15W40 (37 LTR)

## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

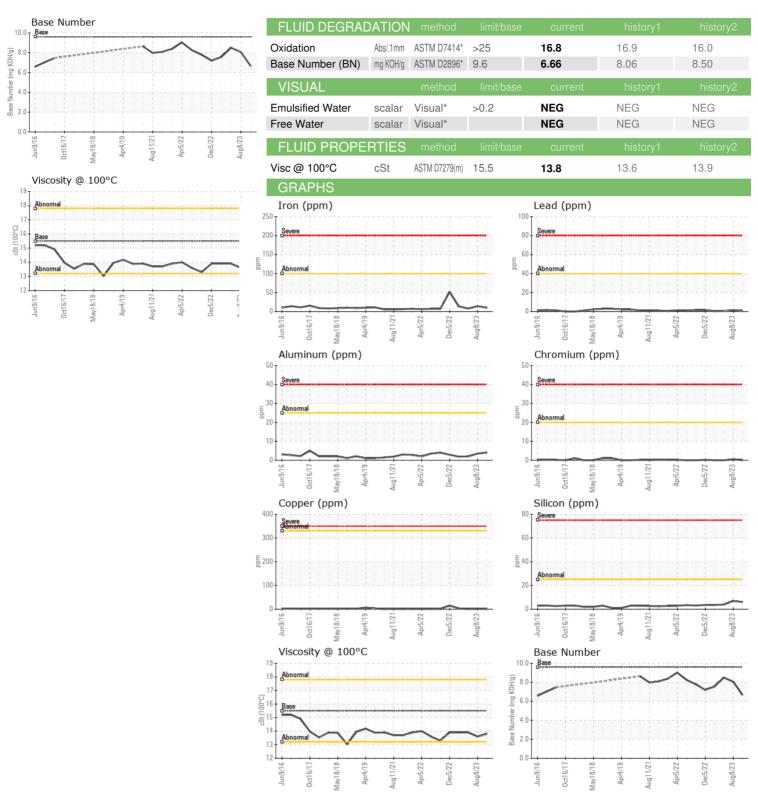
## **Fluid Condition**

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

15W40 (37 LTR)						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091585	GFL0084321	GFL0070692
Sample Date		Client Info		06 Nov 2023	08 Aug 2023	23 May 2023
Machine Age	kms	Client Info		0	22379	0
Oil Age	kms	Client Info		123691	600	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	10	14	8
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>25	4	4	2
Lead	ppm	ASTM D5185(m)	>40	<1	2	<1
Copper	ppm	ASTM D5185(m)	>330	1	1	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	2	2
Barium	ppm	ASTM D5185(m)	1	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	56	59	56
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	911	983	936
Calcium	ppm	ASTM D5185(m)	1070	1075	1076	1092
Phosphorus	ppm	ASTM D5185(m)	1150	938	1035	1025
Zinc	ppm	ASTM D5185(m)	1270	1137	1198	1153
Sulfur	ppm	ASTM D5185(m)	2060	2302	2415	2459
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	7	4
Sodium	ppm	ASTM D5185(m)		3	6	4
Potassium	ppm	ASTM D5185(m)	>20	5	5	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.2	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	8.7	8.3	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	21.1	19.4



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number **Unique Number** Test Package : MOB 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County : 02596508

: GFL0091585 : 5681588

Received Diagnosed

: 15 Nov 2023 : Wes Davis Diagnostician

: 16 Nov 2023

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** 

Contact: GFL Calgary calgarymaintenance@gflenv.com

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.

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