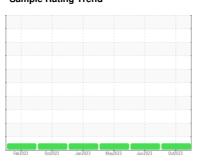


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 125051

Component **Diesel Engine** 

PETRO CANADA DURON E XL 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

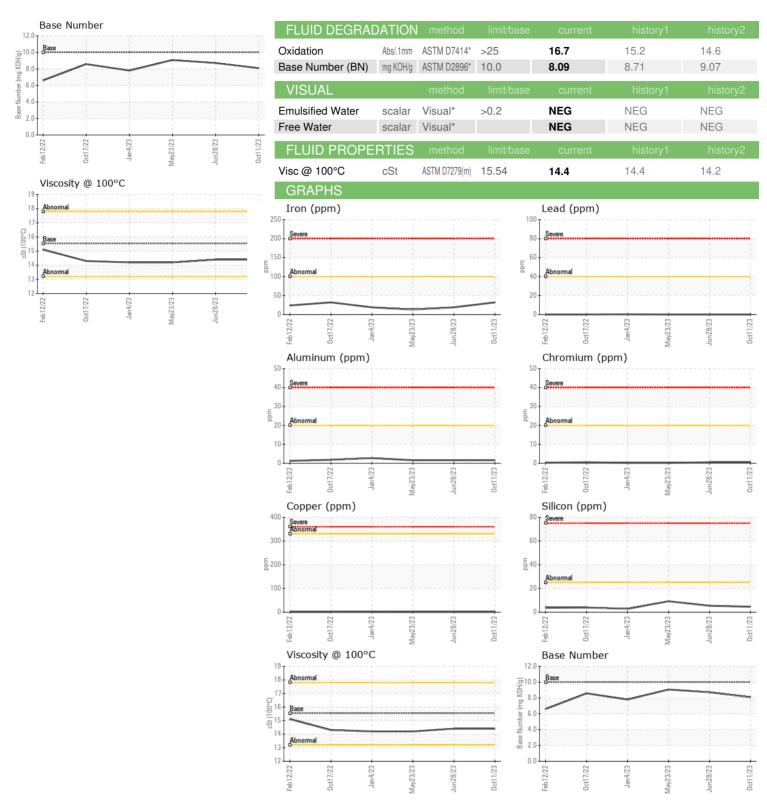
## **Fluid Condition**

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

GAL)		Feb2022	Oct2022 Jan2023	May2023 Jun2023	Oct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091575	GFL0077601	GFL0077619
Sample Date		Client Info		11 Oct 2023	28 Jun 2023	23 May 2023
Machine Age	hrs	Client Info		17900	10851	422423
Oil Age	hrs	Client Info		0	312	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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	32	19	13
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	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	3	2
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	61	59	57
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	999	968	935
Calcium	ppm	ASTM D5185(m)	1070	1106	1073	1069
Phosphorus	ppm	ASTM D5185(m)	1150	963	1025	1033
Zinc	ppm	ASTM D5185(m)	1270	1236	1187	1147
Sulfur	ppm	ASTM D5185(m)	2060	2235	2407	2488
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	5	9
Sodium	ppm	ASTM D5185(m)		5	4	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	8.3	6.7	5.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	19.4	18.8



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

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

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: GFL0091575 : 02589477 : 5658543

Received : 17 Oct 2023 Diagnosed : 18 Oct 2023

: Wes Davis Diagnostician

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

Contact: GFL Calgary calgarymaintenance@gflenv.com T:

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.

F: (403)369-6163 Submitted By: GFL Calgary