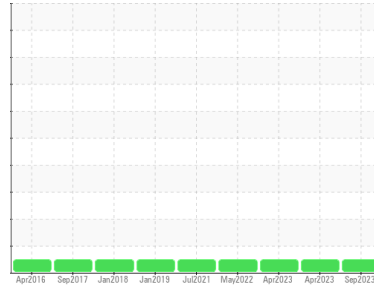




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**4492**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (38 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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0091608</b>	GFL0077602	GFL0077568
Sample Date	Client Info	<b>12 Sep 2023</b>	26 Apr 2023	05 Apr 2023
Machine Age	hrs	<b>27446</b>	26828	26750
Oil Age	hrs	<b>600</b>	79	0
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >6.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >100	<b>26</b>	3	13
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >25	<b>3</b>	1	2
Lead	ppm	ASTM D5185(m) >40	<b>2</b>	<1	2
Copper	ppm	ASTM D5185(m) >330	<b>4</b>	<1	3
Tin	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 1	<b>2</b>	4	2
Barium	ppm	ASTM D5185(m) 1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 60	<b>57</b>	56	58
Manganese	ppm	ASTM D5185(m) 1	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 1010	<b>938</b>	929	930
Calcium	ppm	ASTM D5185(m) 1070	<b>1052</b>	1068	1103
Phosphorus	ppm	ASTM D5185(m) 1150	<b>1063</b>	1066	1067
Zinc	ppm	ASTM D5185(m) 1270	<b>1158</b>	1129	1170
Sulfur	ppm	ASTM D5185(m) 2060	<b>2532</b>	2635	2600
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

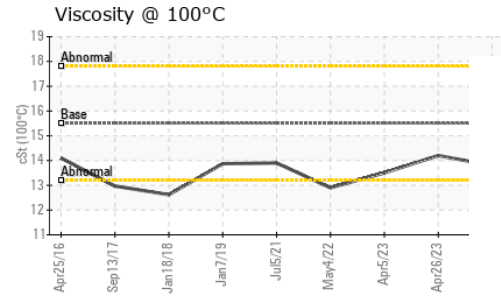
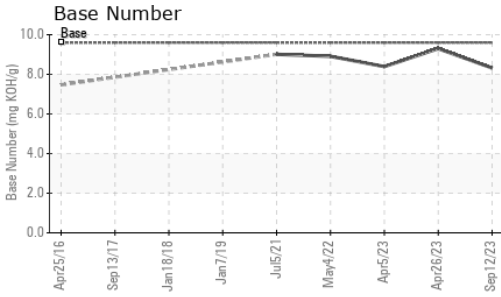
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >25	<b>4</b>	3	4
Sodium	ppm	ASTM D5185(m)	<b>4</b>	6	4
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	0	<1

## INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844* >3	<b>0.6</b>	0.1	0.4
Nitration	Abs/cm	ASTM D7624* >20	<b>8.4</b>	5.4	9.0
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>19.9</b>	18.4	19.8



# OIL ANALYSIS REPORT

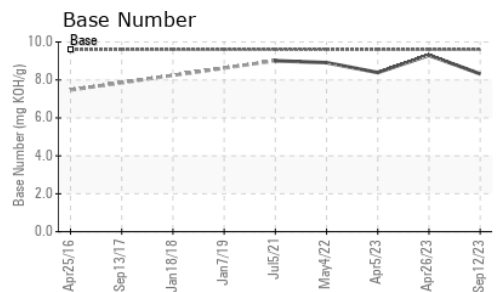
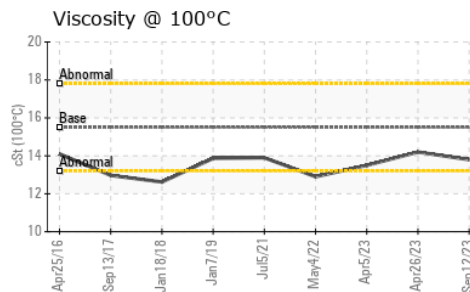
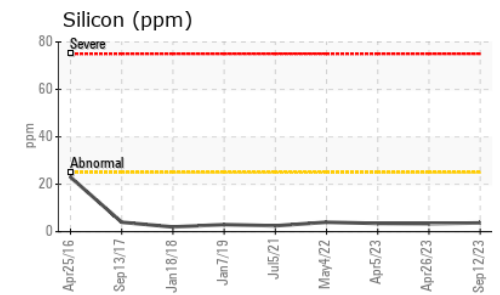
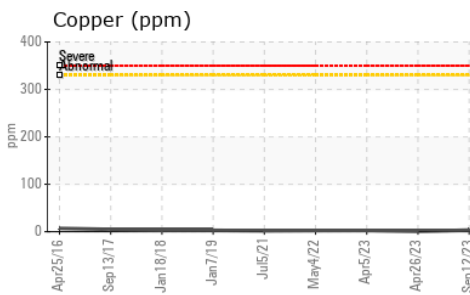
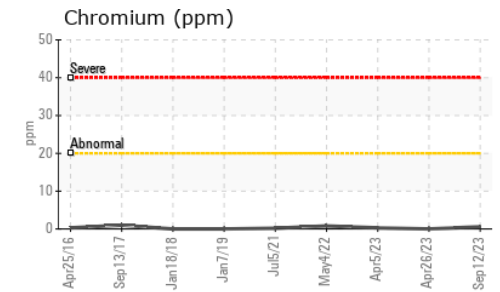
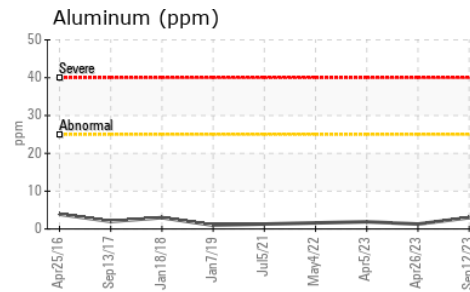
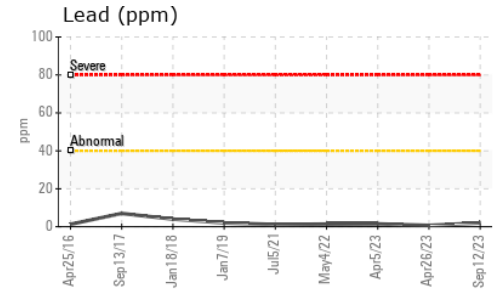
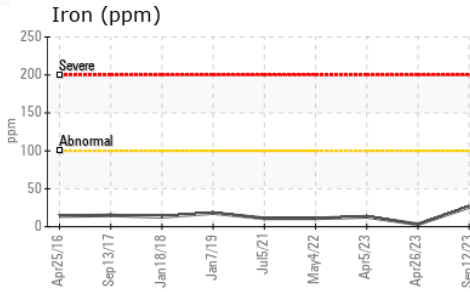


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>15.9</b>	14.0	16.6
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>8.32</b>	9.30	8.39

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>13.8</b>	14.2	13.5

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County  
**Sample No.** : GFL0091608 **Received** : 19 Sep 2023 220 Carmek Blvd  
**Lab Number** : 02583463 **Diagnosed** : 20 Sep 2023 Rocky View County, AB  
**Unique Number** : 5644528 **Diagnostician** : Wes Davis CA T1X 1X1  
**Test Package** : MOB 2 Contact: GFL Calgary calgarymaintenance@gflenv.com

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.

F: (403)369-6163