



# OIL ANALYSIS REPORT

Sample Rating Trend

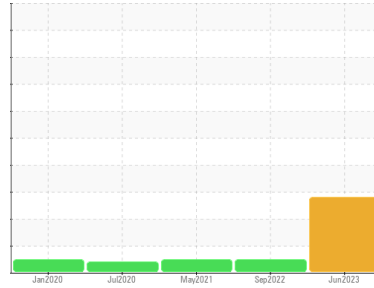
FUEL



Machine Id  
**4649**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**



## DIAGNOSIS

### Recommendation

Nous vous recommandons de vérifier le système d'injection de carburant. Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

### Wear

Les taux d'usure de tous les composants sont normaux.

### Contamination

Quantité élevée de carburant dans l'huile. Les tests confirment la présence de carburant dans l'huile.

### Fluid Condition

Il y a du carburant dans l'huile, ce qui réduit la viscosité. L'huile ne peut plus être utilisée en raison de la présence de contaminants.

## SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	<b>GFL0084429</b>	GFL0025319	GFL0004956
Sample Date	Client Info	<b>20 Jun 2023</b>	13 Sep 2022	11 May 2021
Machine Age	kms Client Info	<b>412671</b>	0	14462
Oil Age	kms Client Info	<b>0</b>	500	0
Oil Changed	Client Info	<b>Changed</b>	N/A	Changed
Sample Status		<b>SEVERE</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history 1	history 2
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185(m) >65	<b>11</b>	13	25
Chromium	ppm ASTM D5185(m) >5	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185(m) >3	<b>2</b>	<1	<1
Titanium	ppm ASTM D5185(m) >5	<b>&lt;1</b>	<1	0
Silver	ppm ASTM D5185(m) >2	<b>&lt;1</b>	0	<1
Aluminum	ppm ASTM D5185(m) >35	<b>4</b>	6	6
Lead	ppm ASTM D5185(m) >10	<b>0</b>	0	0
Copper	ppm ASTM D5185(m) >180	<b>2</b>	2	4
Tin	ppm ASTM D5185(m) >8	<b>0</b>	0	<1
Antimony	ppm ASTM D5185(m) >35	<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	history 1	history 2
Boron	ppm ASTM D5185(m) 2	<b>27</b>	3	2
Barium	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 50	<b>32</b>	58	58
Manganese	ppm ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 950	<b>729</b>	929	978
Calcium	ppm ASTM D5185(m) 1050	<b>1070</b>	1118	1014
Phosphorus	ppm ASTM D5185(m) 995	<b>798</b>	1054	1042
Zinc	ppm ASTM D5185(m) 1180	<b>912</b>	1199	1211
Sulfur	ppm ASTM D5185(m) 2600	<b>2094</b>	2537	2571
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185(m) >15	<b>6</b>	2	3
Sodium	ppm ASTM D5185(m)	<b>7</b>	6	6
Potassium	ppm ASTM D5185(m) >20	<b>3</b>	5	4
Fuel	% ASTM D7593* >3.0	<b>13.3</b>	<1.0	<1.0

## INFRA-RED

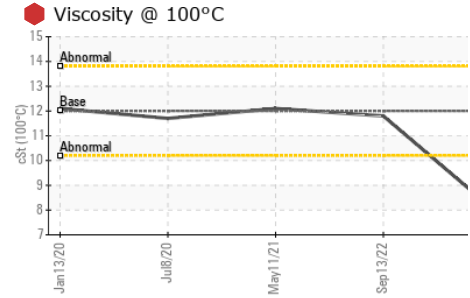
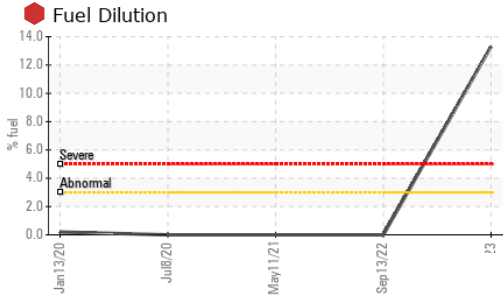
method	limit/base	current	history 1	history 2
Soot %	% ASTM D7844* >3	<b>0.3</b>	0.6	0.4
Nitration	Abs/cm ASTM D7624* >20	<b>8.4</b>	7.7	8.0
Sulfation	Abs/.1mm ASTM D7415* >30	<b>18.6</b>	20.6	19.8

## FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm ASTM D7414* >25	<b>13.5</b>	14.5	14.4



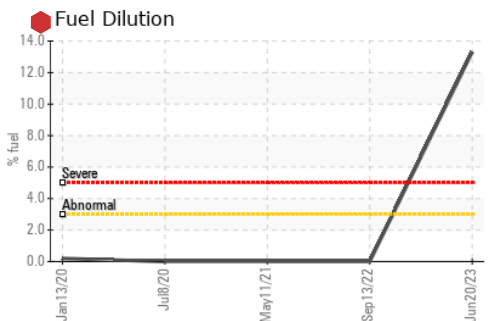
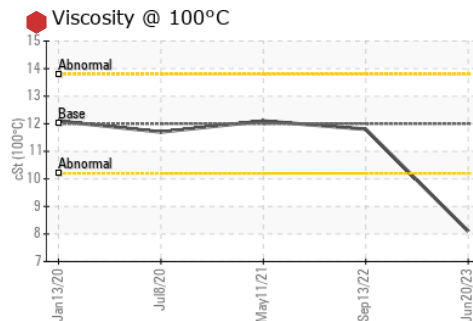
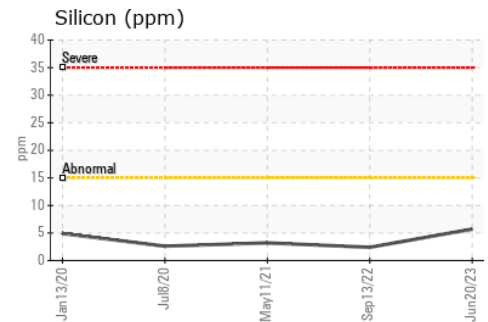
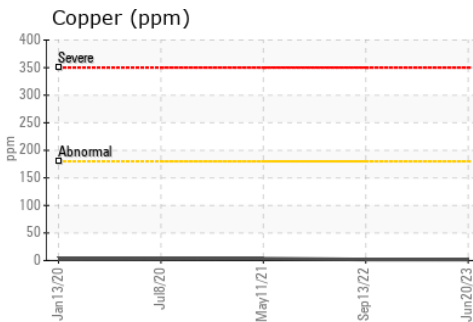
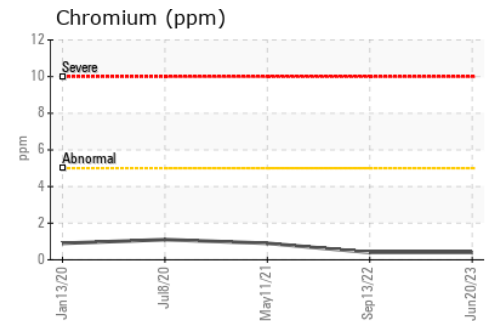
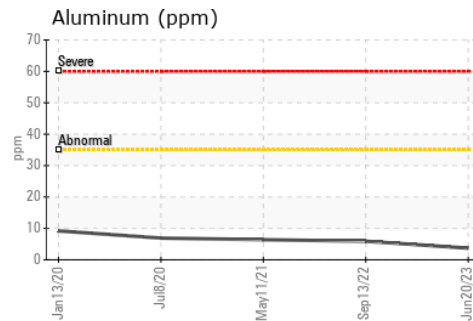
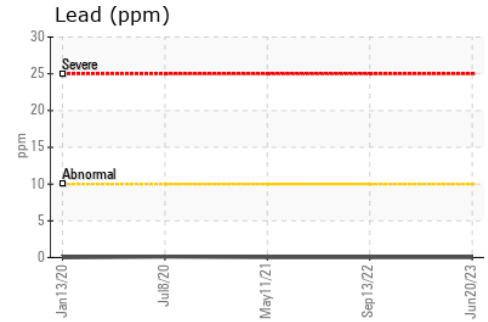
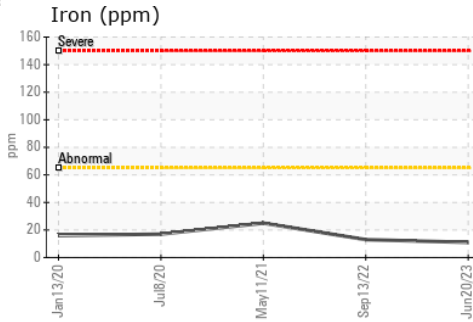
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D7279(m)	<span style="color: red;">8.1</span>	11.8	12.1

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 780 - GMA - ICI - Solid Waste  
**Sample No.** : GFL0084429 **Received** : 10 Jul 2023  
**Lab Number** : 02568706 **Diagnosed** : 11 Jul 2023  
**Unique Number** : 5605752 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

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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