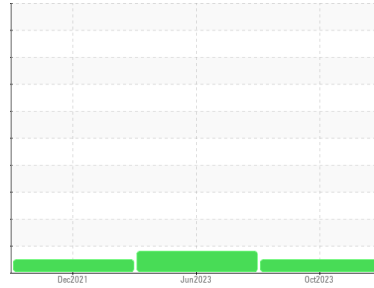




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[73143]**  
 Machine Id  
**7163**

Component  
**Diesel Engine**  
 Fluid

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

## DIAGNOSIS

### Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

### Wear

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

### Contamination

Il n'y a aucun indice de contamination dans l'huile.

### Fluid Condition

L'état de l'huile est acceptable pour la durée de service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0071092</b>	GFL0071084	GFL0034985
Sample Date	Client Info	<b>16 Oct 2023</b>	06 Jun 2023	15 Dec 2021
Machine Age	hrs	<b>16156</b>	16156	13842
Oil Age	hrs	<b>772</b>	840	400
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	ATTENTION	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<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) >200	<b>12</b>	14	16
Chromium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Titanium	ppm ASTM D5185(m) >2	<b>0</b>	<1	0
Silver	ppm ASTM D5185(m) >2	<b>&lt;1</b>	0	<1
Aluminum	ppm ASTM D5185(m) >30	<b>3</b>	4	4
Lead	ppm ASTM D5185(m) >30	<b>&lt;1</b>	1	0
Copper	ppm ASTM D5185(m) >30	<b>10</b>	▲ 50	1
Tin	ppm ASTM D5185(m) >15	<b>0</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) 2	<b>2</b>	3	2
Barium	ppm ASTM D5185(m) 0	<b>&lt;1</b>	0	0
Molybdenum	ppm ASTM D5185(m) 50	<b>59</b>	59	62
Manganese	ppm ASTM D5185(m) 0	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 950	<b>966</b>	959	1061
Calcium	ppm ASTM D5185(m) 1050	<b>1127</b>	1202	1087
Phosphorus	ppm ASTM D5185(m) 995	<b>976</b>	1082	1077
Zinc	ppm ASTM D5185(m) 1180	<b>1221</b>	1213	1267
Sulfur	ppm ASTM D5185(m) 2600	<b>2305</b>	2468	2544
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >30	<b>3</b>	3	2
Sodium	ppm ASTM D5185(m)	<b>2</b>	2	2
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	5

## INFRA-RED

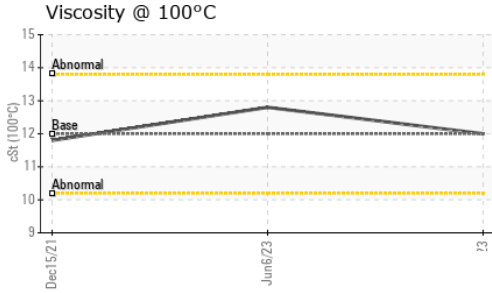
method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	<b>0.5</b>	0.4	0
Nitration	Abs/cm ASTM D7624* >20	<b>7.6</b>	7.1	3.2
Sulfation	Abs/.1mm ASTM D7415* >30	<b>20.0</b>	19.8	12.9

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	<b>15.2</b>	14.5	5.2



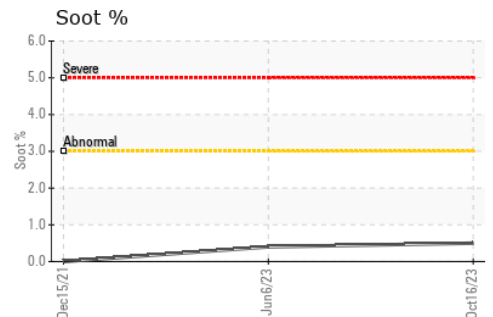
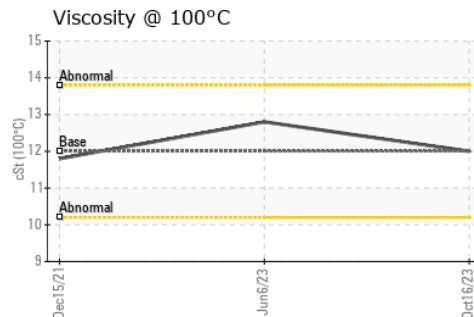
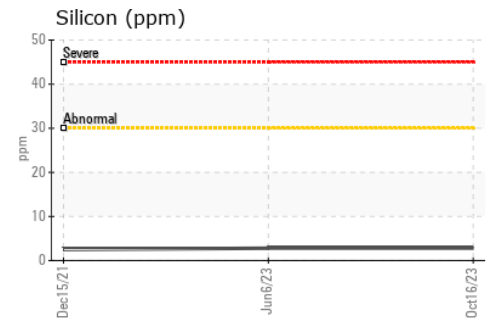
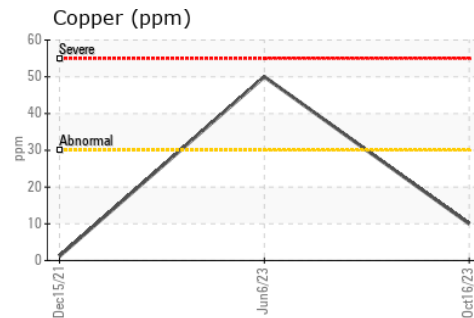
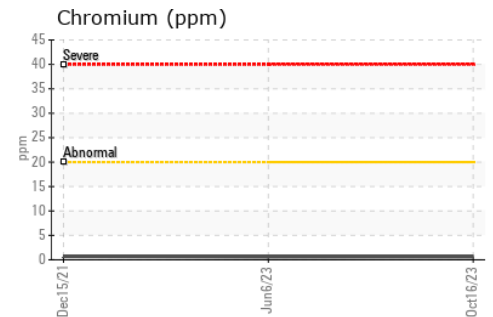
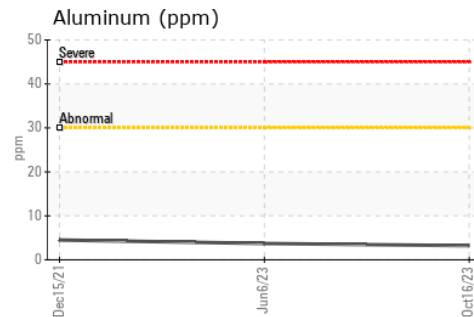
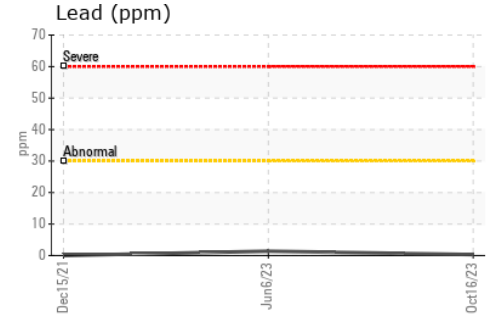
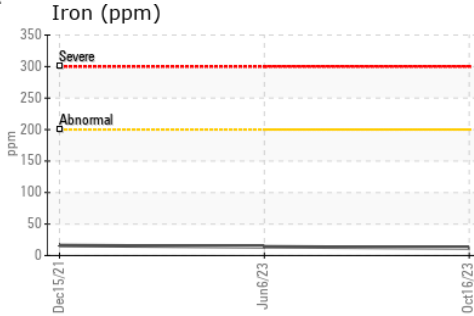
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	12.8	11.8

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0071092  
**Lab Number** : 02589500  
**Unique Number** : 5658566  
**Test Package** : MOB 1

**GFL Environmental - 751 - Lachine**  
 900, Avenue du Pacifique,  
 Lachine, QC  
 CA H8S 1C4  
 Contact: Christine Bedard  
 christine.bedard@gflenv.com  
 T: (514)366-3205  
 F:

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.