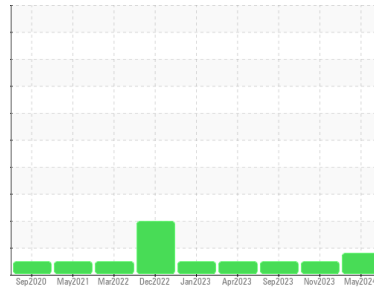




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**9257**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (36 GAL)**

## DIAGNOSIS

### Recommendation

Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

### Wear

Usure de piston.

### Contamination

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

### Fluid Condition

l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0120720</b>	GFL0096465	GFL0096364
Sample Date	Client Info		<b>08 May 2024</b>	22 Nov 2023	25 Sep 2023
Machine Age	kms	Client Info	<b>120732</b>	101319	18335
Oil Age	kms	Client Info	<b>600</b>	18678	600
Oil Changed	Client Info		<b>N/A</b>	N/A	Changed
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>120	<b>27</b>	9	26
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>1</b>	2	2
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>▲ 22</b>	3	4
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	2
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	1	2
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)	2	<b>3</b>	1	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	<b>59</b>	57	64
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	950	<b>931</b>	924	1008
Calcium	ppm	ASTM D5185(m)	1050	<b>1110</b>	995	1137
Phosphorus	ppm	ASTM D5185(m)	995	<b>964</b>	953	1045
Zinc	ppm	ASTM D5185(m)	1180	<b>1160</b>	1146	1251
Sulfur	ppm	ASTM D5185(m)	2600	<b>2201</b>	2398	2246
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

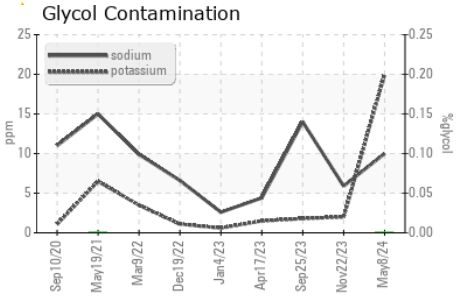
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	3	6
Sodium	ppm	ASTM D5185(m)		<b>10</b>	6	14
Potassium	ppm	ASTM D5185(m)	>20	<b>20</b>	2	2
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	NEG

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>4	<b>0.6</b>	0.3	0.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.2</b>	8.1	11.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.8</b>	19.8	26.0



# OIL ANALYSIS REPORT

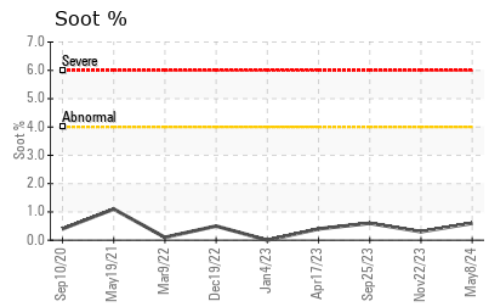
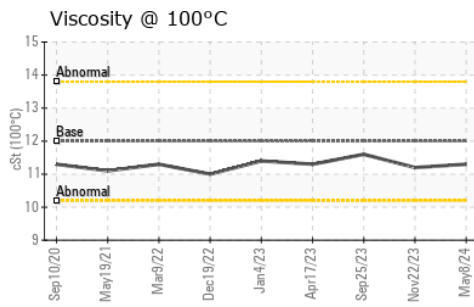
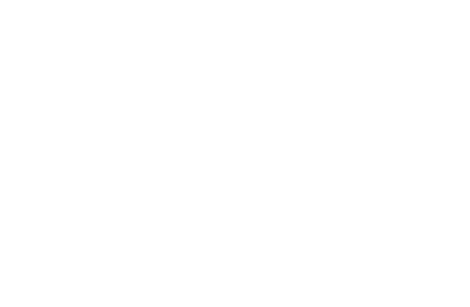
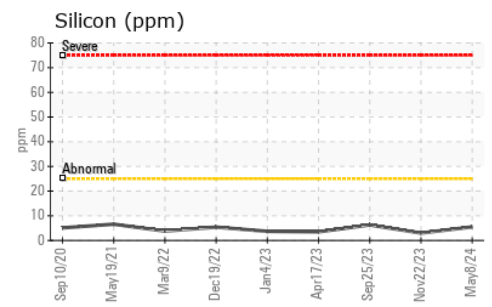
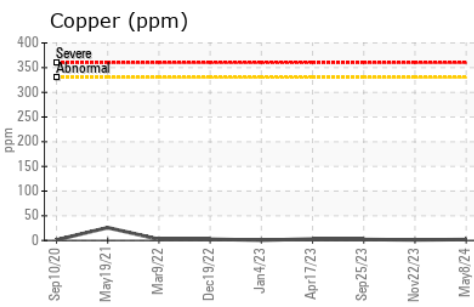
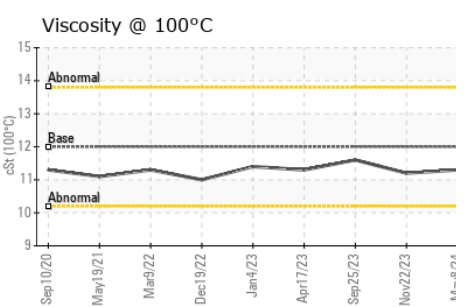
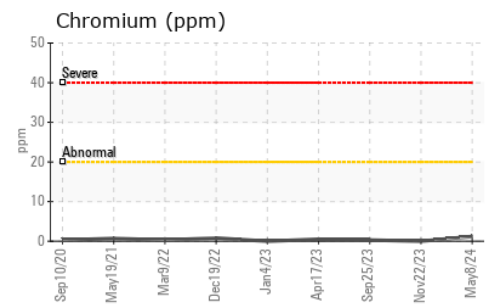
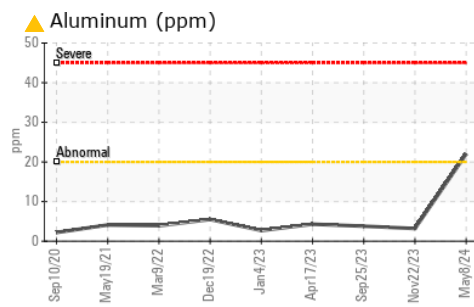
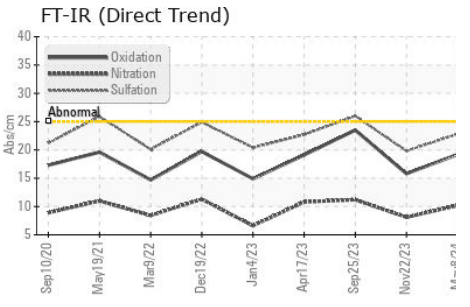
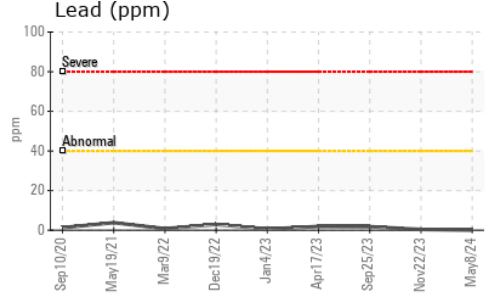
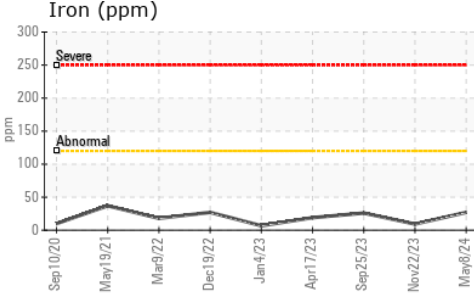
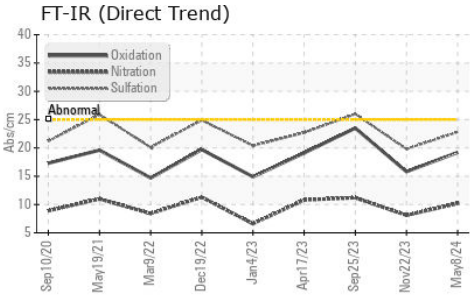


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	19.2	15.8	23.5

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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	11.2	11.6

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0120720  
**Lab Number** : 02635540  
**Unique Number** : 5776693  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**GFL Environmental - 747 - GMA - Solid Waste**  
 4 Chemin du Tremblay,  
 Boucherville, QC  
 CA J4B 6Z5  
 Contact: Steve Voyer  
 svoyer@matrec.ca

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.