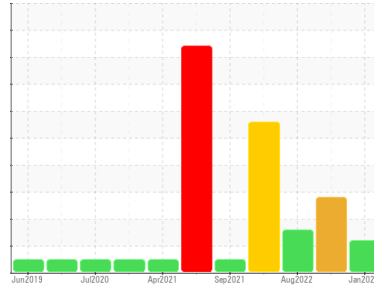




# OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id  
**8430**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (37 GAL)**

## DIAGNOSIS

### Recommendation

Vérifier le niveau du fluide de refroidissement. Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Confirmez la source du lubrifiant utilisé pour l'appoint/remplissage. 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

Des produits de traitement de l'eau sont présents, ce qui indique une fuite lente de fluide de refroidissement. Le test de glycol est négatif. Il n'y a aucun indice de contamination dans l'huile.

### Fluid Condition

Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. L'état de l'huile est acceptable pour la durée de service (voir recommandation).

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0094175</b>	GFL0059937	GFL0056183
Sample Date	Client Info		<b>25 Jan 2024</b>	06 Mar 2023	23 Aug 2022
Machine Age	hrs	Client Info	<b>10315</b>	9411	8852
Oil Age	hrs	Client Info	<b>600</b>	600	200
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ATTENTION</b>	ABNORMAL	ABNORMAL

## 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)	>75	<b>65</b>	70	38
Chromium	ppm	ASTM D5185(m)	>5	<b>3</b>	3	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>7</b>	12	6
Lead	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185(m)	>100	<b>13</b>	4	3
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	<1
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>47</b>	7	2
Barium	ppm	ASTM D5185(m)	0	<b>7</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>31</b>	73	59
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>73</b>	1048	967
Calcium	ppm	ASTM D5185(m)	1050	<b>2146</b>	1184	1140
Phosphorus	ppm	ASTM D5185(m)	995	<b>884</b>	1093	1020
Zinc	ppm	ASTM D5185(m)	1180	<b>1085</b>	1276	1191
Sulfur	ppm	ASTM D5185(m)	2600	<b>2852</b>	2509	2570
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

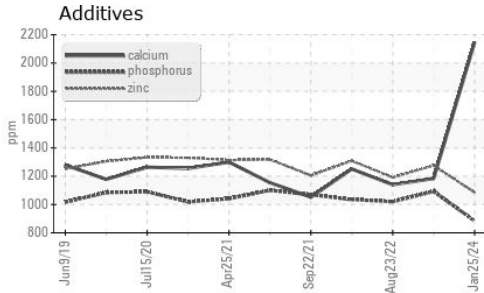
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>19</b>	▲ 31	▲ 27
Sodium	ppm	ASTM D5185(m)		▲ <b>261</b>	▲ 348	9
Potassium	ppm	ASTM D5185(m)	>20	<b>11</b>	19	7
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	NEG

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	<b>1.1</b>	1.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.5</b>	12.9	4.1
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>25.8</b>	27.3	14.4



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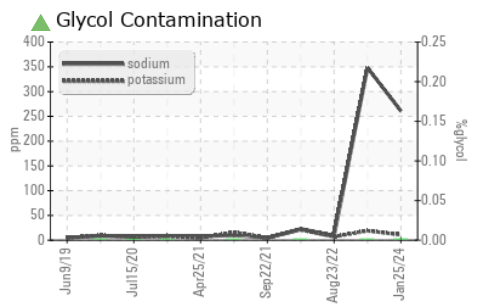
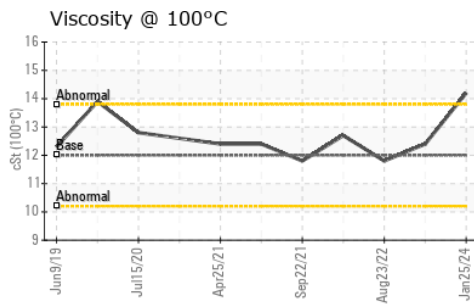
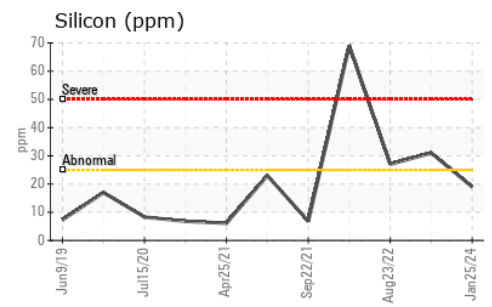
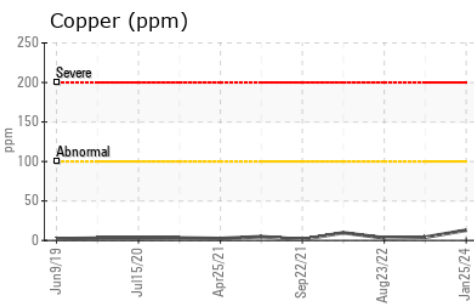
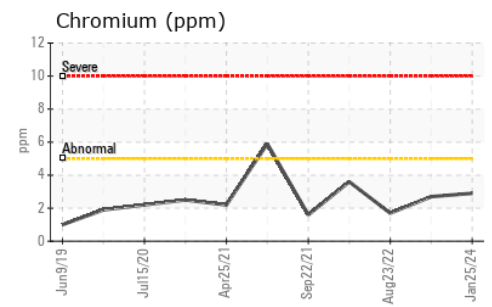
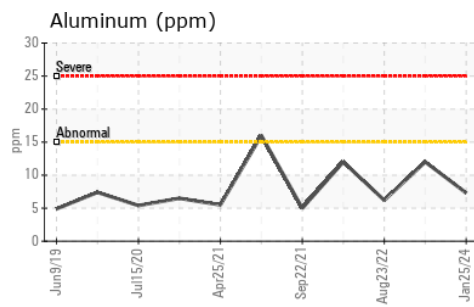
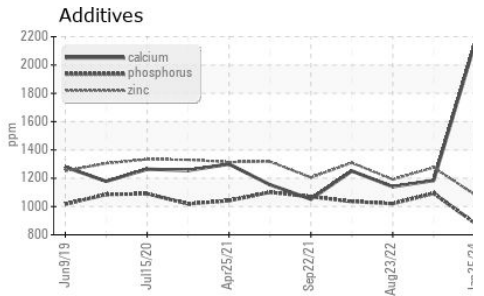
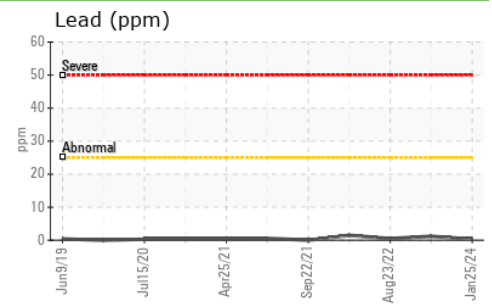
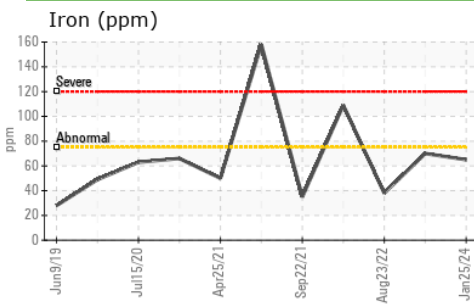
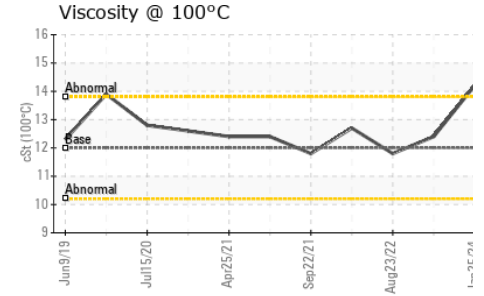


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>19.0</b>	21.1	6.6

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)	12.00	<b>14.2</b>	12.4	11.8

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 731STOK - Stoke Hauling**  
**Sample No.** : GFL0094175 **Received** : 02 Feb 2024 **286 Chemin Cote**  
**Lab Number** : 02612972 **Tested** : 02 Feb 2024 **Stoke, QC**  
**Unique Number** : 5722067 **Diagnosed** : 03 Feb 2024 - Bill Quesnel **CA J0B 3G0**  
**Test Package** : MOB 1 ( Additional Tests: Glycol ) **Contact: Robert Sayers**  
**rsayers@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.