



Machine Id  
**7237**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

### RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0103766</b>	GFL0097064	GFL0084481
Sample Date		Client Info		<b>08 Feb 2024</b>	11 Oct 2023	24 Jul 2023
Machine Age	hrs	Client Info		<b>16318</b>	15759	15245
Oil Age	hrs	Client Info		<b>0</b>	600	600
Filter Age	hrs	Client Info		<b>0</b>	600	600
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

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

Iron	ppm	ASTM D5185(m)	>120	<b>6</b>	4	4
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>5</b>	4	3
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	2	2
Copper	ppm	ASTM D5185(m)	>330	<b>3</b>	1	1
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

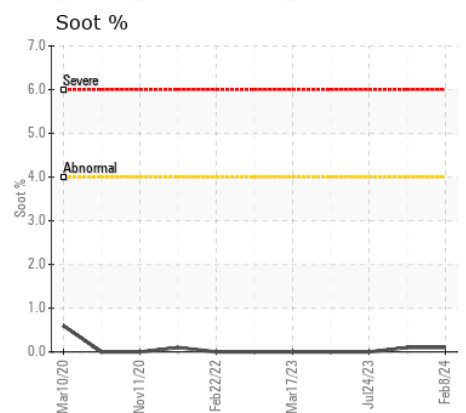
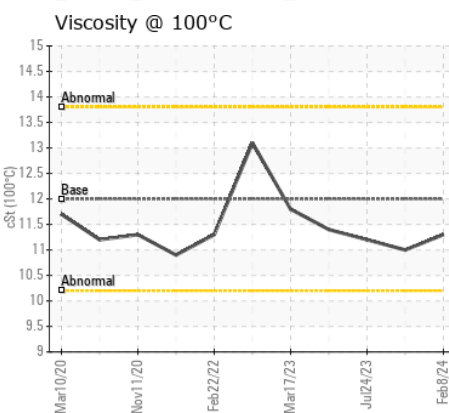
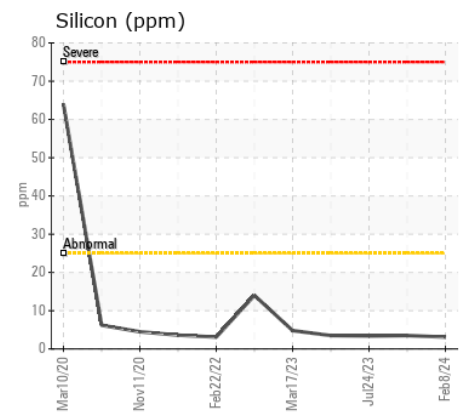
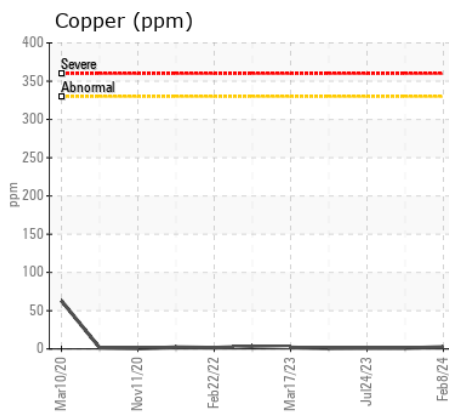
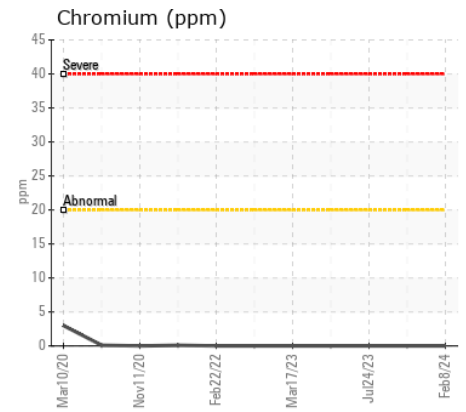
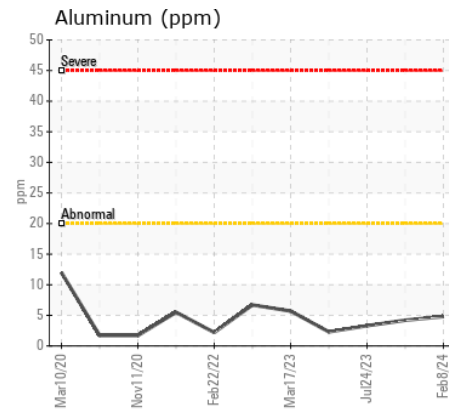
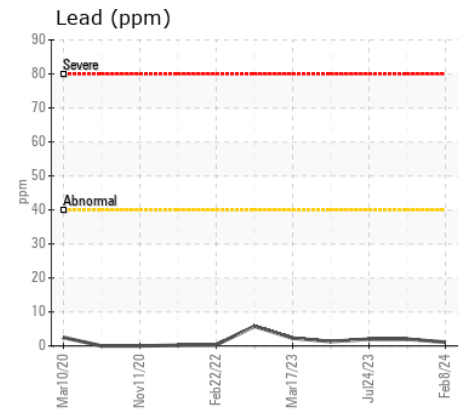
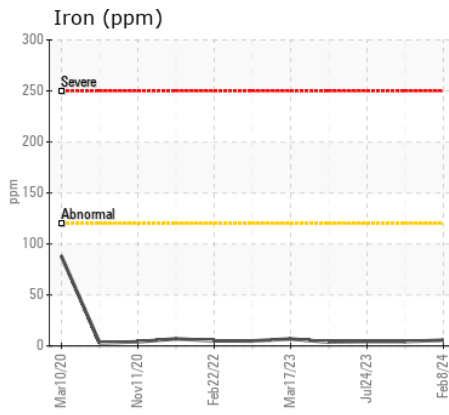
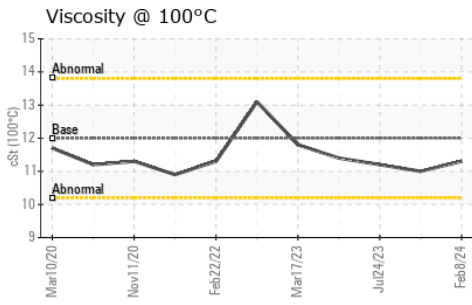
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	6	5
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>4	<b>0.1</b>	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.2</b>	7.7	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.2</b>	19.4	20.0
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>4</b>	8	4
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	2	3
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>58</b>	59	58
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>941</b>	963	971
Calcium	ppm	ASTM D5185(m)	1050	<b>1087</b>	1133	1028
Phosphorus	ppm	ASTM D5185(m)	995	<b>973</b>	991	1050
Zinc	ppm	ASTM D5185(m)	1180	<b>1154</b>	1192	1184
Sulfur	ppm	ASTM D5185(m)	2600	<b>2590</b>	2429	2402
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.3</b>	15.4	15.8
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.3</b>	11.0	11.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0103766  
**Lab Number** : 02615866  
**Unique Number** : 5732976  
**Test Package** : MOB 1  
**Received** : 15 Feb 2024  
**Tested** : 15 Feb 2024  
**Diagnosed** : 15 Feb 2024 - Wes Davis

**GFL Environmental - 780 - GMA - ICI - Solid Waste**  
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 Laval, QC  
 CA H7P 4J3  
 Contact: Pieces Laval  
 pieces.laval@gflenv.com  
 T: (450)687-3838  
 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.