



Machine Id  
**9217**  
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>GFL0103694</b>	GFL0096342	GFL0087554
Sample Date		Client Info		<b>03 Jan 2024</b>	04 Oct 2023	04 Aug 2023
Machine Age	hrs	Client Info		<b>16406</b>	16126	15981
Oil Age	hrs	Client Info		<b>0</b>	1200	0
Filter Age	hrs	Client Info		<b>0</b>	1200	0
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>7</b>	3	9
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	1	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

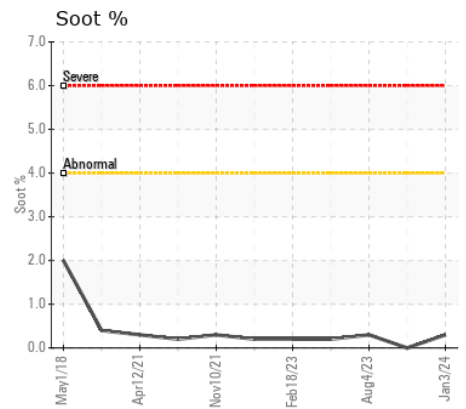
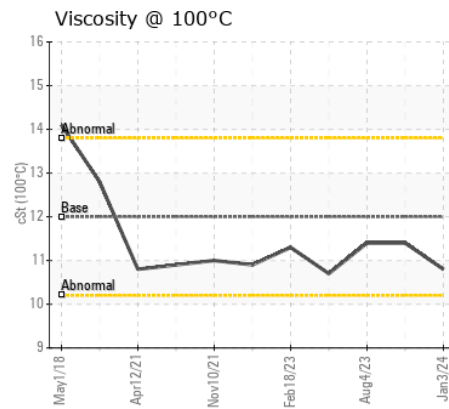
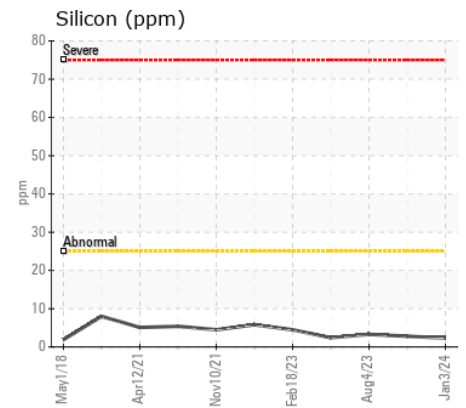
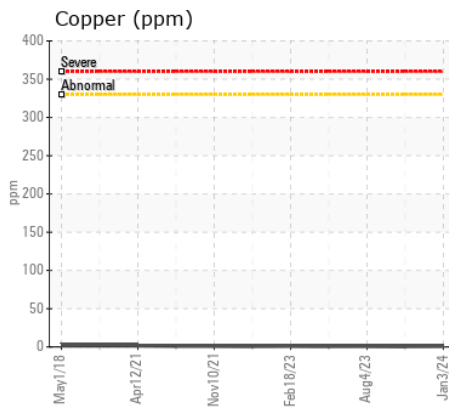
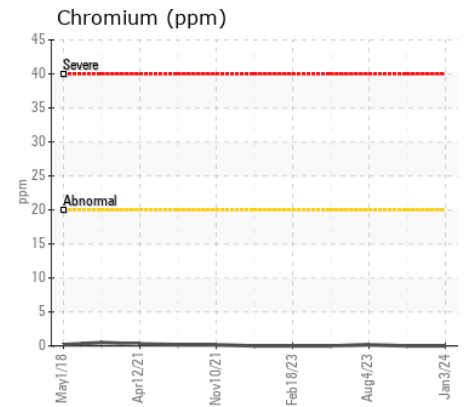
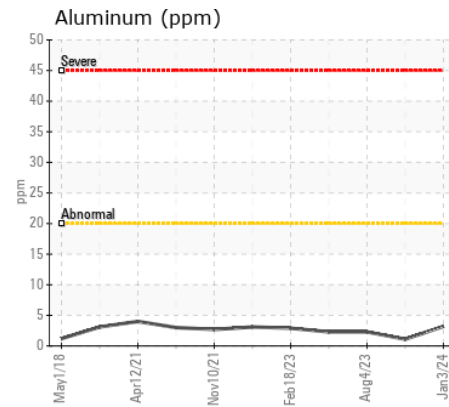
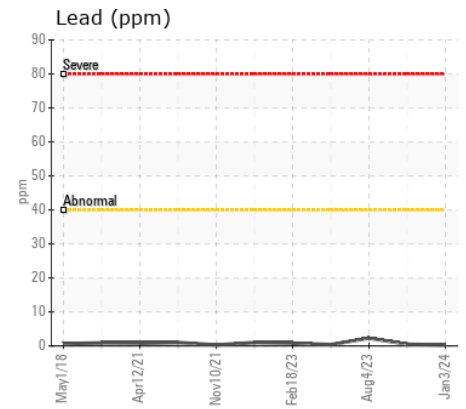
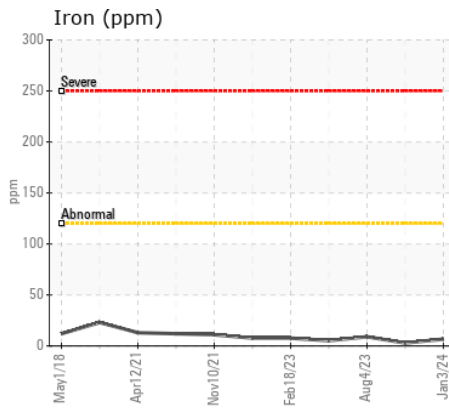
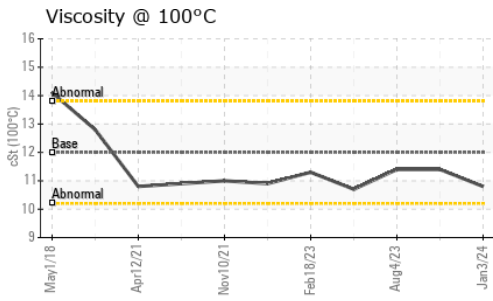
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>9</b>	0	1
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>0.3</b>	0	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.8</b>	6.3	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.1</b>	19.0	22.1
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>6</b>	6	11
Boron	ppm	ASTM D5185(m)	2	<b>&lt;1</b>	2	1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>58</b>	60	59
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>970</b>	972	974
Calcium	ppm	ASTM D5185(m)	1050	<b>1045</b>	1074	1059
Phosphorus	ppm	ASTM D5185(m)	995	<b>999</b>	1034	1012
Zinc	ppm	ASTM D5185(m)	1180	<b>1180</b>	1191	1183
Sulfur	ppm	ASTM D5185(m)	2600	<b>2573</b>	2558	2225
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.6</b>	14.6	17.7
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>10.8</b>	11.4	11.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 780 - GMA - ICI - Solid Waste  
**Sample No.** : GFL0103694 **Received** : 05 Jan 2024 4365 boul. St-Elzear Ouest,  
**Lab Number** : 02606728 **Diagnosed** : 05 Jan 2024 Laval, QC  
**Unique Number** : 5707814 **Diagnostician** : Wes Davis CA H7P 4J3  
**Test Package** : MOB 1

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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