



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**414013**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

**RECOMMENDATION**

Nous vous recommandons de vérifier le filtre à air, le système d'induction d'air et tout endroit où la saleté peut entrer dans le composant. Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. Nous recommandons le remplacement des filtres de ce composant. Confirm the source of the lubricant being utilized for top-up/fill. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0096480</b>	---	---
Sample Date		Client Info		<b>05 Jan 2024</b>	---	---
Machine Age	hrs	Client Info		<b>15178</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

**WEAR**

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

Iron	ppm	ASTM D5185(m)	>120	<b>27</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>5	<b>2</b>	---	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>8</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>6</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>245</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>4</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---

**CONTAMINATION**

La teneur en carburant est négligeable. 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. Concentration modérée de saleté dans l'huile.

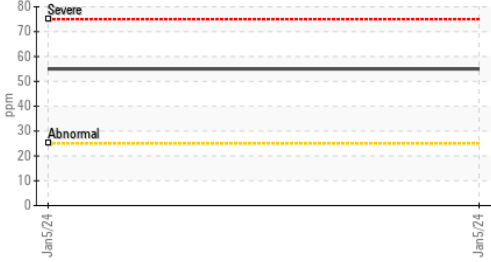
Silicon	ppm	ASTM D5185(m)	>25	<b>▲ 55</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>15</b>	---	---
Fuel	%	ASTM D7593*	>3.0	<b>0.9</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	ASTM D7844*	>4	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.3</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.3</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---

**FLUID CONDITION**

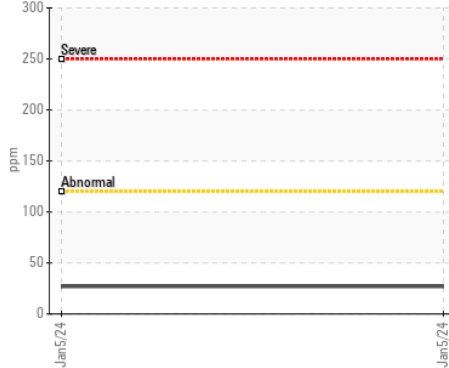
Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. L'huile ne peut plus être utilisée en raison de la présence de contaminants.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Boron	ppm	ASTM D5185(m)	2	<b>274</b>	---	---
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	50	<b>122</b>	---	---
Manganese	ppm	ASTM D5185(m)	0	<b>4</b>	---	---
Magnesium	ppm	ASTM D5185(m)	950	<b>659</b>	---	---
Calcium	ppm	ASTM D5185(m)	1050	<b>1431</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	995	<b>670</b>	---	---
Zinc	ppm	ASTM D5185(m)	1180	<b>755</b>	---	---
Sulfur	ppm	ASTM D5185(m)	2600	<b>2003</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>23.0</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>9.3</b>	---	---

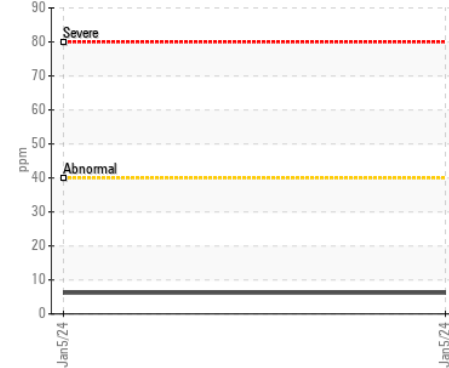
▲ Silicon (ppm)



Iron (ppm)



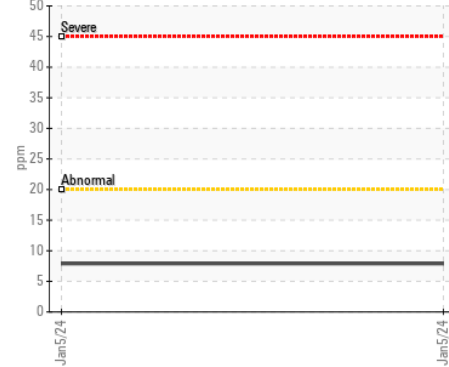
Lead (ppm)



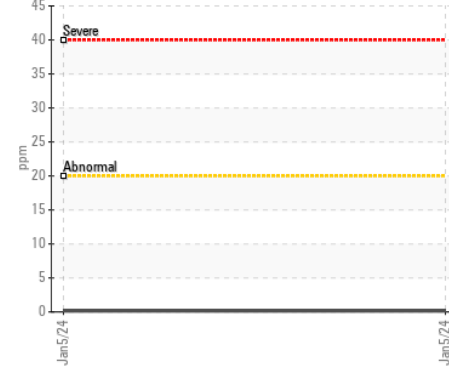
Fuel Dilution



Aluminum (ppm)



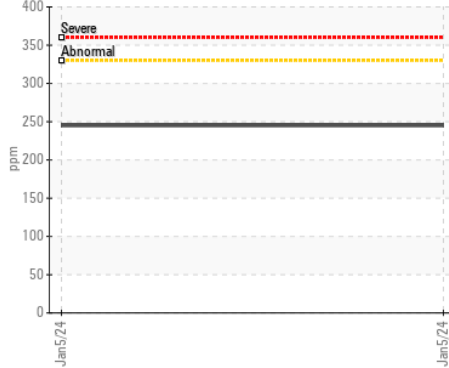
Chromium (ppm)



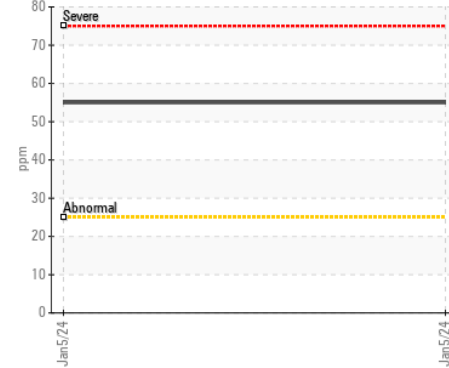
Viscosity @ 100°C



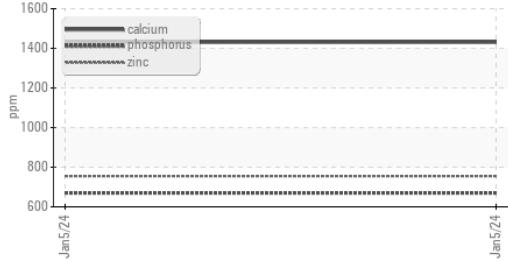
Copper (ppm)



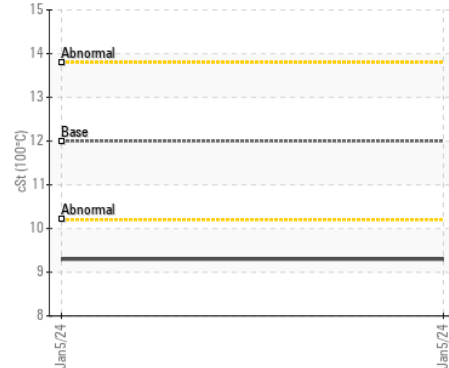
▲ Silicon (ppm)



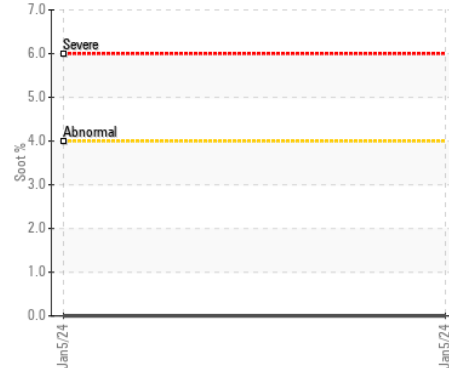
Additives



Viscosity @ 100°C



Soot %



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 747 - GMA - Solid Waste  
**Sample No.** : GFL0096480 **Received** : 09 Jan 2024  
**Lab Number** : 02607382 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 5708468 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

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.

T:  
F: