



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



Machine Id  
**701111**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (11 LTR)**

**RECOMMENDATION**

Confirmez la source du lubrifiant utilisé pour l'appoint/remplissage. 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>GFL0119736</b>	GFL0114928	GFL0103696
Sample Date		Client Info		<b>21 Jun 2024</b>	11 Mar 2024	05 Jan 2024
Machine Age	hrs	Client Info		<b>10814</b>	1025	9878
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

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

Iron	ppm	ASTM D5185(m)	>120	<b>8</b>	6	11
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

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

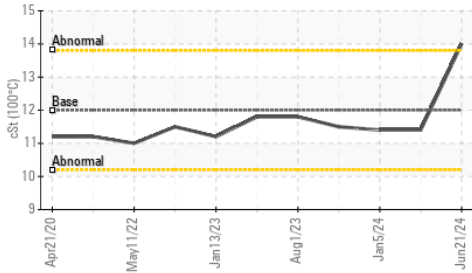
Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	6
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>4	<b>0.2</b>	0.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.4</b>	8.7	10.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.4</b>	20.2	22.4
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

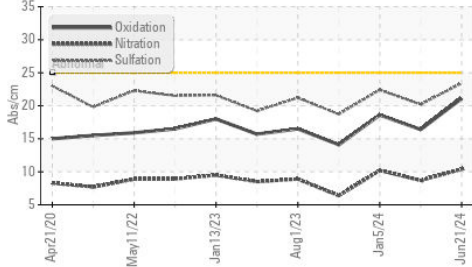
La viscosité de l'échantillon se situe dans la portée de l'SAE 40; nous vous conseillons de vérifier. Ceci, en plus des niveaux d'additifs, indique que la marque ou le type d'huile ne correspond pas à ce qui a été signalé. L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		<b>10</b>	7	6
Boron	ppm	ASTM D5185(m)	2	<b>17</b>	2	1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>50</b>	58	61
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	950	<b>629</b>	964	992
Calcium	ppm	ASTM D5185(m)	1050	<b>1492</b>	1062	1109
Phosphorus	ppm	ASTM D5185(m)	995	<b>750</b>	1011	1020
Zinc	ppm	ASTM D5185(m)	1180	<b>942</b>	1183	1220
Sulfur	ppm	ASTM D5185(m)	2600	<b>2006</b>	2605	2492
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>21.1</b>	16.4	18.6
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>▲ 14.0</b>	11.4	11.4

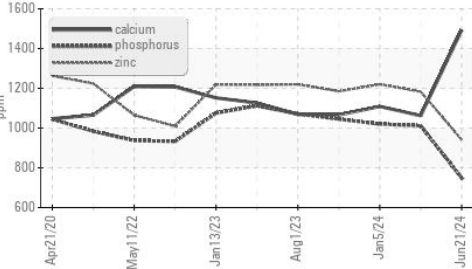
▲ Viscosity @ 100°C



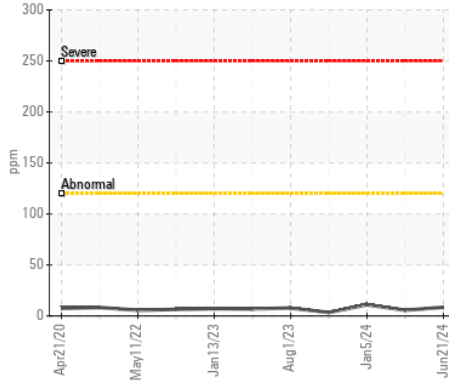
FT-IR (Direct Trend)



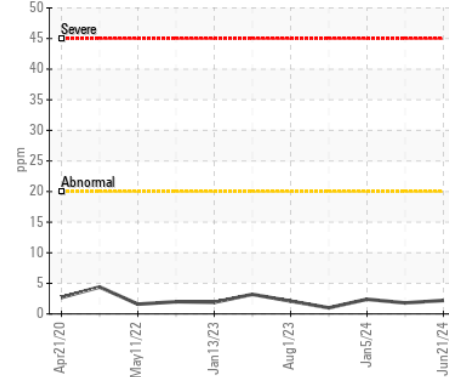
Additives



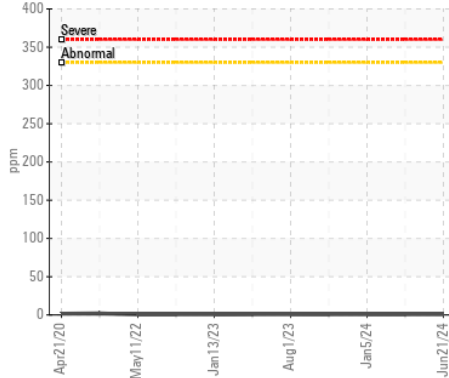
Iron (ppm)



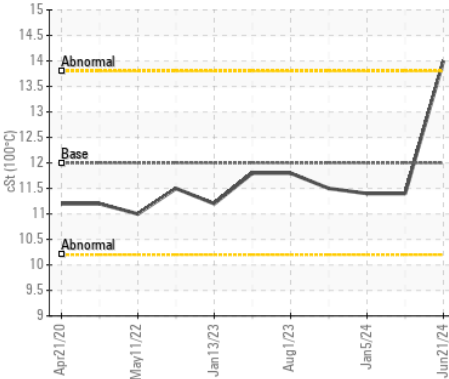
Aluminum (ppm)



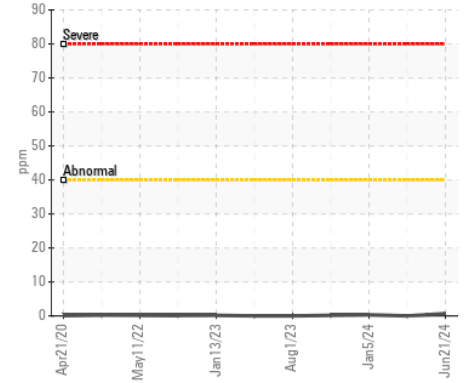
Copper (ppm)



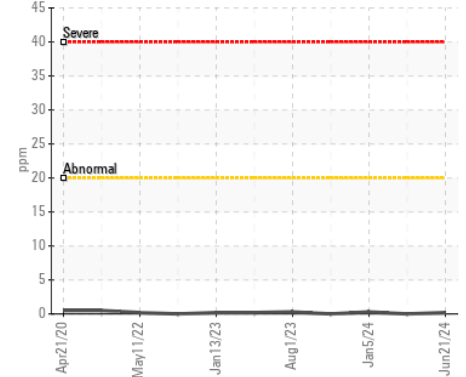
▲ Viscosity @ 100°C



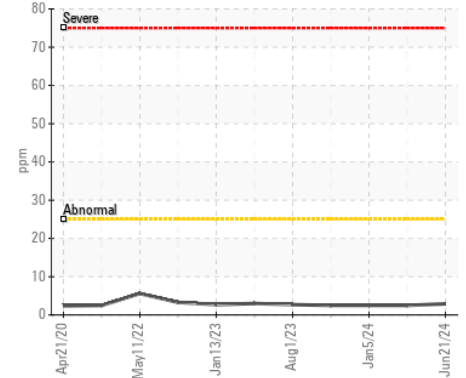
Lead (ppm)



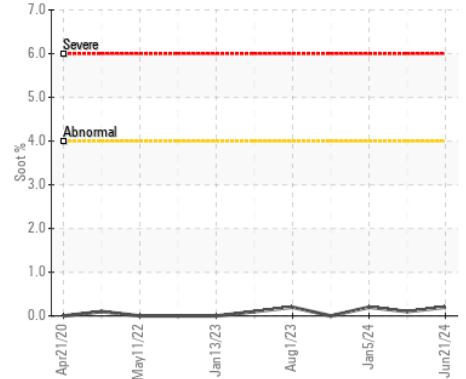
Chromium (ppm)



Silicon (ppm)



Soot %



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0119736  
**Lab Number** : 02645224  
**Unique Number** : 5802763  
**Test Package** : MOB 1

**Received** : 03 Jul 2024  
**Tested** : 03 Jul 2024  
**Diagnosed** : 03 Jul 2024 - Kevin Marson

**GFL Environmental - 780 - GMA - ICI - Solid Waste**  
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 Laval, QC  
 CA H7P 4J3  
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 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.