



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



Machine Id  
**801230**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Aucune mesure corrective n'est recommandée pour l'instant.  
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>PC0088667</b>	PC0083989	PC0077970
Sample Date		Client Info		<b>10 May 2024</b>	23 Jan 2024	08 Nov 2023
Machine Age	kms	Client Info		<b>286362</b>	18045	273914
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

**WEAR**

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

Iron	ppm	ASTM D5185(m)	>75	<b>46</b>	30	50
Chromium	ppm	ASTM D5185(m)	>5	<b>2</b>	1	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	<b>4</b>	6	13
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<b>2</b>	1	2
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

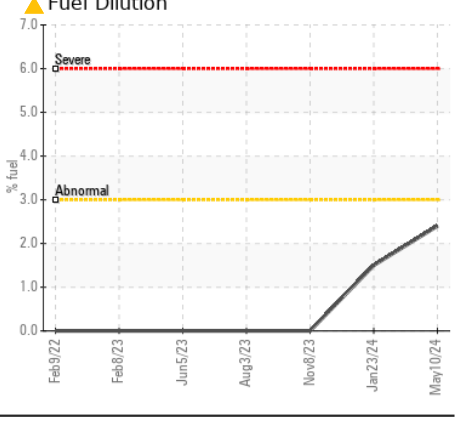
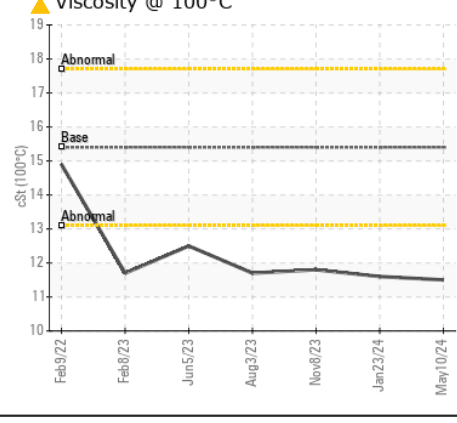
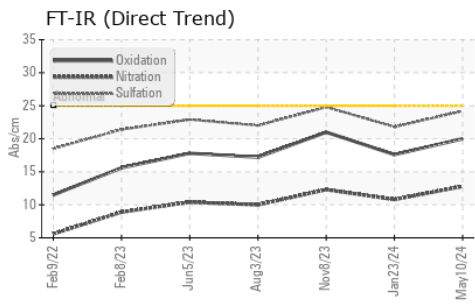
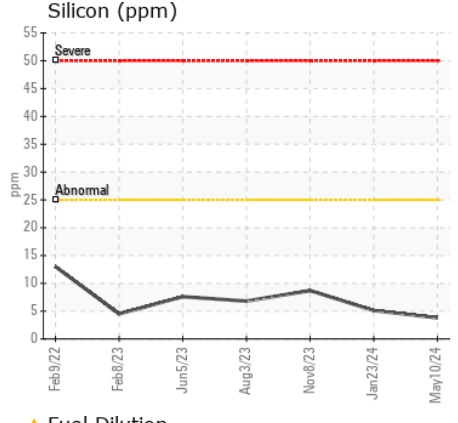
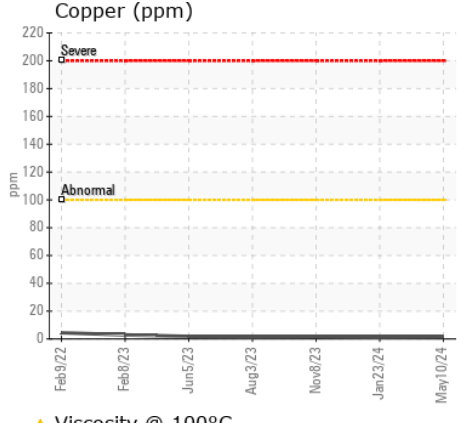
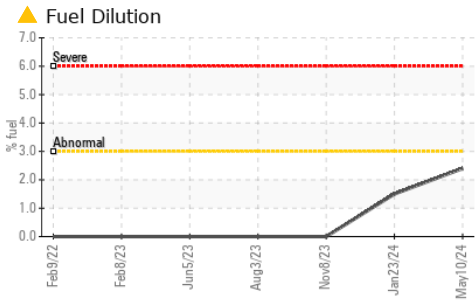
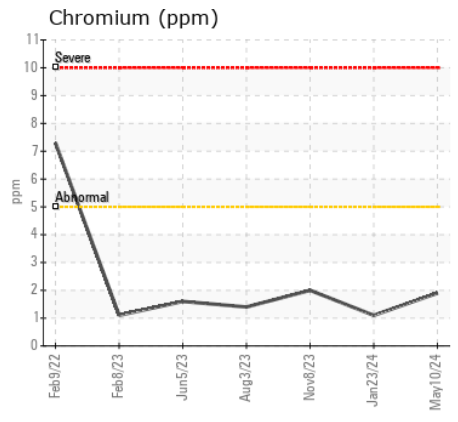
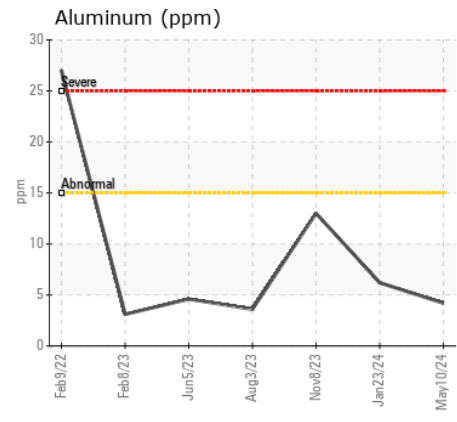
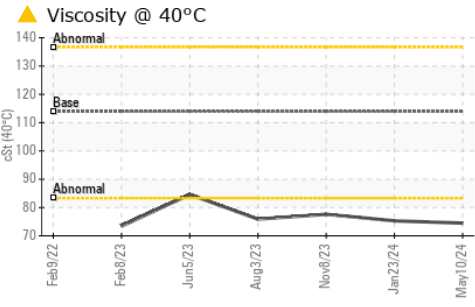
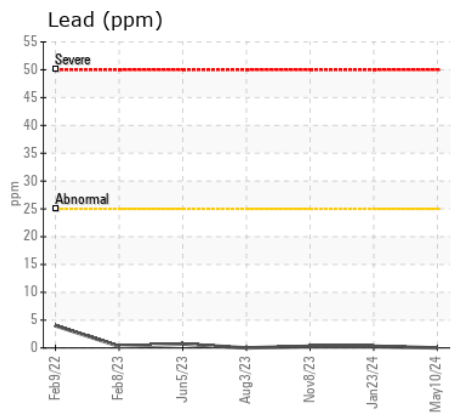
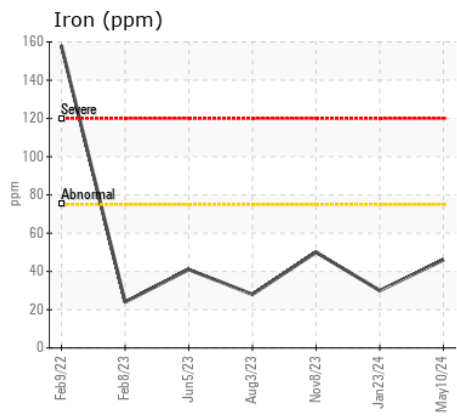
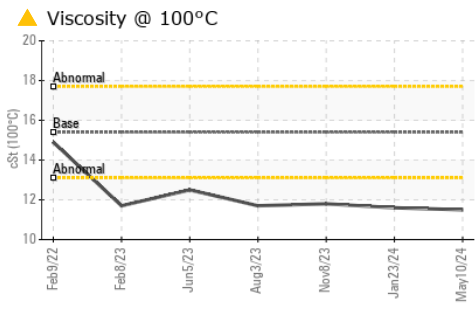
Légère dilution de carburant dans l'huile. Aucun autre contaminant n'a été détecté dans l'huile.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	5	9
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	6	18
Fuel	%	ASTM D7593*	>3.0	<b>▲ 2.4</b>	▲ 1.5	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	0.0
Soot %	%	ASTM D7844*	>6	<b>1</b>	0.7	1.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.8</b>	10.8	12.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.2</b>	21.8	24.8
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>7</b>	4	13
Boron	ppm	ASTM D5185(m)	0	<b>8</b>	5	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>61</b>	59	62
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>888</b>	944	951
Calcium	ppm	ASTM D5185(m)	1070	<b>1028</b>	1059	1080
Phosphorus	ppm	ASTM D5185(m)	1150	<b>918</b>	997	981
Zinc	ppm	ASTM D5185(m)	1270	<b>1131</b>	1165	1185
Sulfur	ppm	ASTM D5185(m)	2060	<b>2301</b>	2641	2375
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.0</b>	17.6	21.0
Visc @ 40°C	cSt	ASTM D7279(m)	113.9	<b>▲ 74.5</b>	▲ 75.3	77.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>▲ 11.5</b>	▲ 11.6	11.8
Viscosity Index (VI)	Scale	ASTM D2270*	142	<b>147</b>	147	146



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0088667  
**Lab Number** : 02635935  
**Unique Number** : 5785097  
**Test Package** : MOB 1 ( Additional Tests: FUELDILUTION, KV40, PercentFuel, VI, Visual )  
**Received** : 16 May 2024  
**Tested** : 21 May 2024  
**Diagnosed** : 21 May 2024 - Wes Davis  
**GFL Environmental - 742 - Quebec City Solid Waste**  
 5160 Jean-Talon Pierre-Bertrand Bou  
 Quebec City, QC  
 CA G2J 1B7  
 Contact: Jean Audet  
 Jaudet@matrec.ca  
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 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.