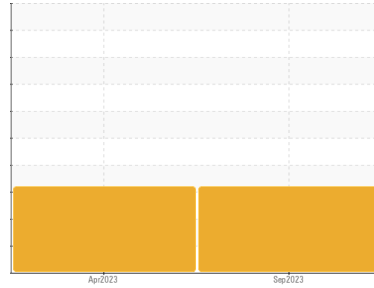




Machine Id  
**8393**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**



## DIAGNOSIS

**Recommendation**  
Nous vous recommandons de vérifier le système d'injection de carburant. Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

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

**Contamination**  
Quantité élevée de carburant dans l'huile. Les tests confirment la présence de carburant dans l'huile.

**Fluid Condition**  
Il y a du carburant dans l'huile, ce qui réduit la viscosité. L'huile ne peut plus être utilisée en raison de la présence de contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0078099</b>	PC0071843	---
Sample Date	Client Info		<b>27 Sep 2023</b>	05 Apr 2023	---
Machine Age	kms	Client Info	<b>362846</b>	0	---
Oil Age	kms	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>SEVERE</b>	SEVERE	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>44</b>	10	---
Chromium	ppm	ASTM D5185(m) >20	<b>3</b>	<1	---
Nickel	ppm	ASTM D5185(m) >4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185(m) >20	<b>15</b>	3	---
Lead	ppm	ASTM D5185(m) >40	<b>2</b>	<1	---
Copper	ppm	ASTM D5185(m) >330	<b>2</b>	<1	---
Tin	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 2	<b>4</b>	7	---
Barium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185(m) 50	<b>31</b>	45	---
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m) 950	<b>470</b>	676	---
Calcium	ppm	ASTM D5185(m) 1050	<b>531</b>	819	---
Phosphorus	ppm	ASTM D5185(m) 995	<b>500</b>	800	---
Zinc	ppm	ASTM D5185(m) 1180	<b>602</b>	850	---
Sulfur	ppm	ASTM D5185(m) 2600	<b>1131</b>	1950	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>13</b>	7	---
Sodium	ppm	ASTM D5185(m)	<b>10</b>	4	---
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	1	---
Fuel	%	ASTM D7593* >2.0	<b>41.5</b>	29.5	---

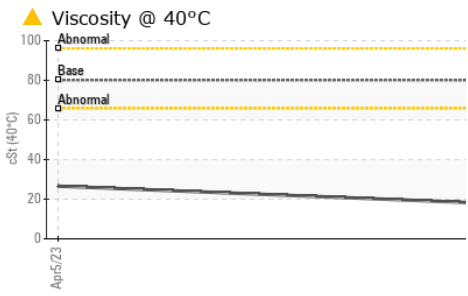
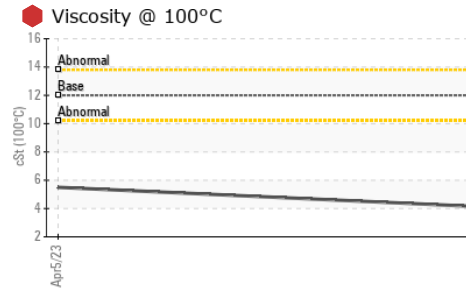
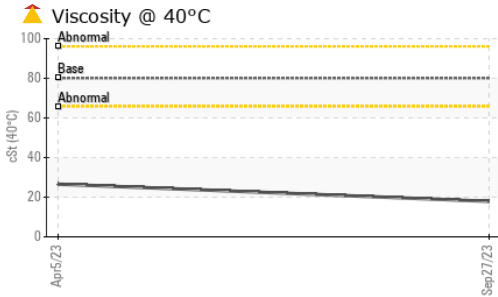
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.2</b>	0	---
Nitration	Abs/cm	ASTM D7624* >20	<b>13.3</b>	9.5	---
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>22.3</b>	20.6	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	<b>24.4</b>	15.3	---

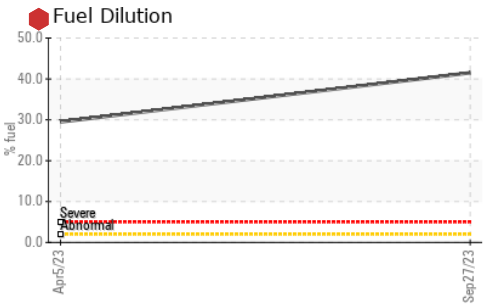
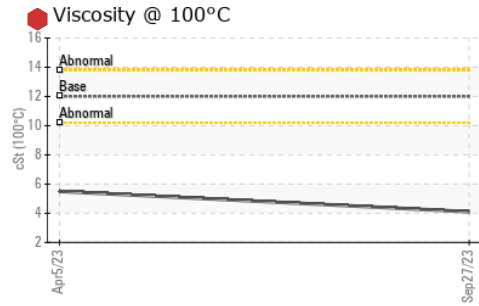
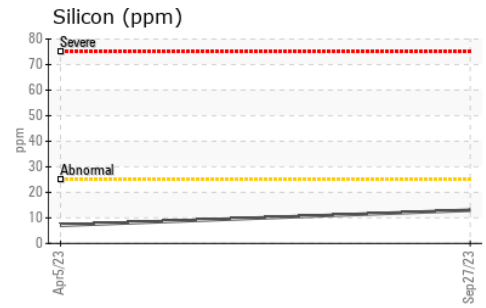
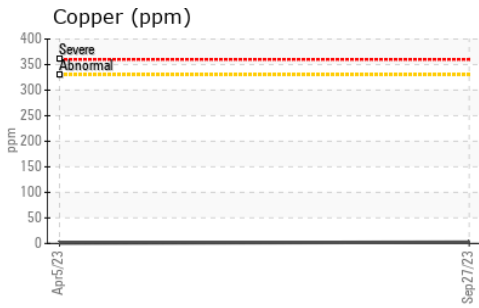
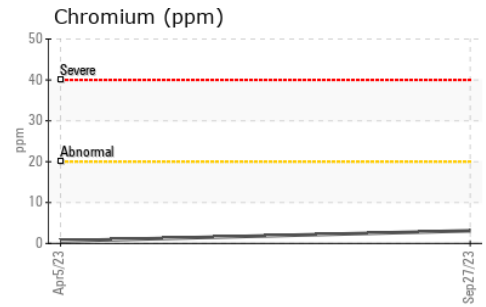
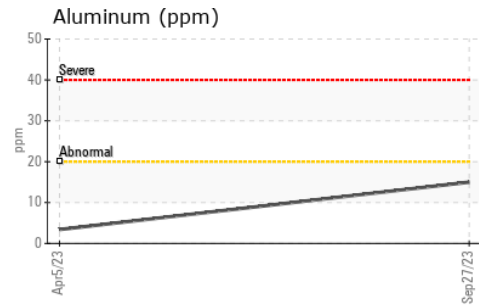
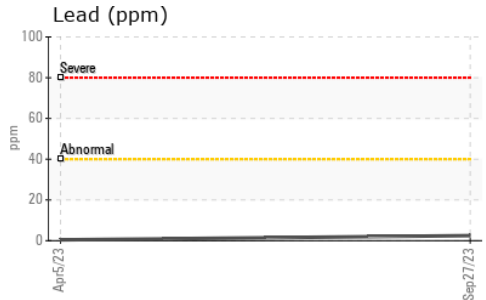
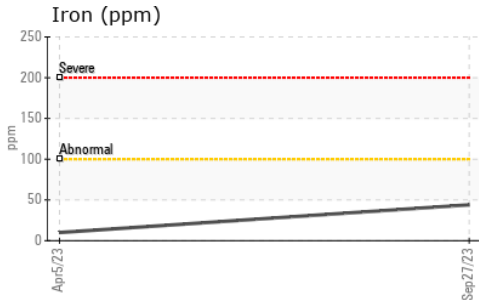
# OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---
Free Water	scalar	Visual*		<b>NEG</b>	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	<b>▲ 17.9</b>	▲ 26.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>◆ 4.1</b>	◆ 5.5	---
Viscosity Index (VI)	Scale	ASTM D2270*	144	<b>132</b>	149	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 737 - Quebec City Hauling  
**Sample No.** : PC0078099 **Received** : 02 Oct 2023 6205 Boul. Wilfrid Hamel,  
**Lab Number** : **02586058** **Diagnosed** : 03 Oct 2023 Quebec City, QC  
**Unique Number** : 5655124 **Diagnostician** : Wes Davis CA G2E 5G8  
**Test Package** : MOB 1 ( Additional Tests: KV40, PercentFuel, VI ) Contact: Dave Beaulieu  
davebeaulieu@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.