

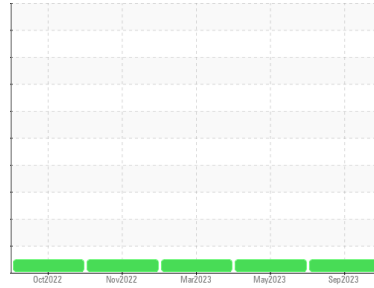
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**401218**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SAE 10W30 (--- GAL)**



## DIAGNOSIS

### Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

### Wear

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

### Contamination

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

### Fluid Condition

L'état de l'huile est acceptable pour la durée de service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0078003</b>	PC0073197	PC0067762
Sample Date	Client Info		<b>07 Sep 2023</b>	08 May 2023	02 Mar 2023
Machine Age	kms	Client Info	<b>539585</b>	851817	847086
Oil Age	kms	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >80	<b>35</b>	10	22
Chromium	ppm	ASTM D5185(m) >5	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >30	<b>13</b>	5	9
Lead	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185(m) >150	<b>4</b>	<1	1
Tin	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 1	<b>8</b>	7	12
Barium	ppm	ASTM D5185(m) 1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 1	<b>61</b>	57	58
Manganese	ppm	ASTM D5185(m) 1	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 10	<b>929</b>	910	902
Calcium	ppm	ASTM D5185(m) 2942	<b>1038</b>	1087	1082
Phosphorus	ppm	ASTM D5185(m) 1102	<b>1024</b>	1070	1045
Zinc	ppm	ASTM D5185(m) 1351	<b>1159</b>	1161	1140
Sulfur	ppm	ASTM D5185(m) 3903	<b>2529</b>	2634	2682
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	<b>16</b>	4	9
Sodium	ppm	ASTM D5185(m)	<b>8</b>	4	5
Potassium	ppm	ASTM D5185(m) >20	<b>10</b>	2	4
Glycol	%	ASTM D7922*	<b>0.0</b>	NEG	NEG

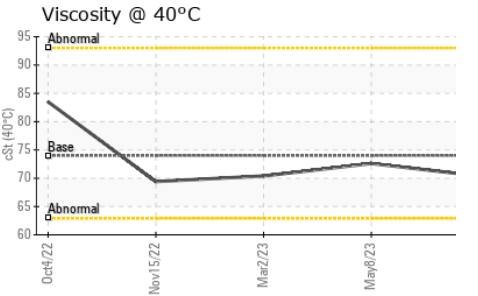
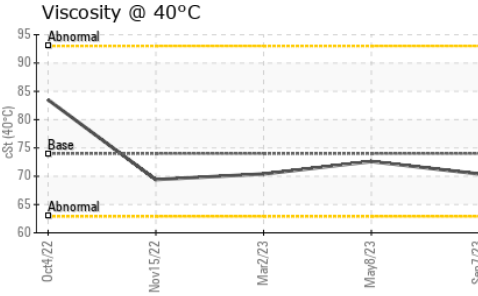
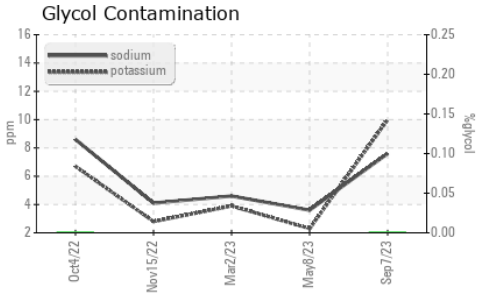
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.9</b>	0.2	0.3
Nitration	Abs/cm	ASTM D7624* >20	<b>8.0</b>	5.7	7.6
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>19.8</b>	18.2	21.2

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	<b>14.2</b>	13.3	15.2

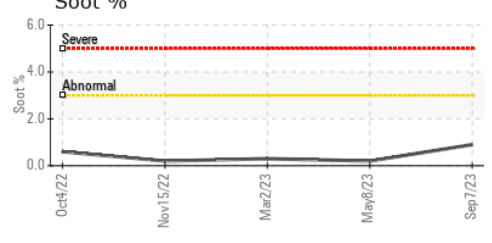
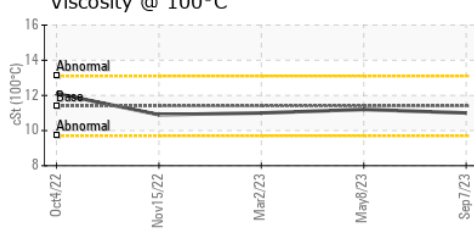
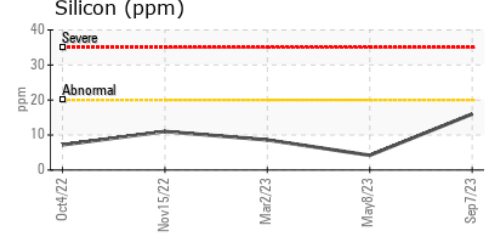
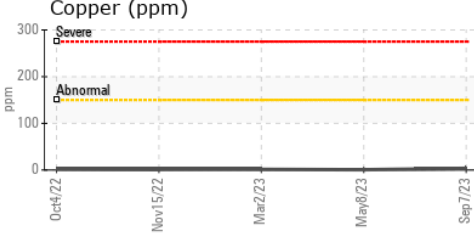
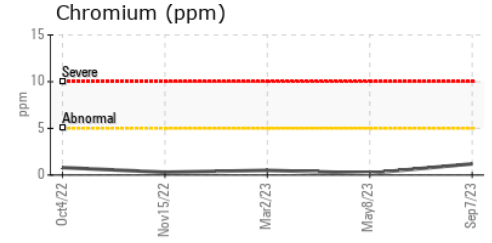
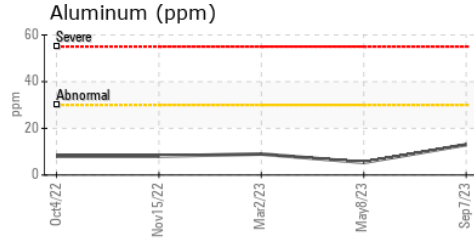
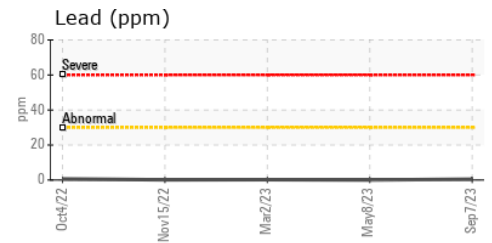
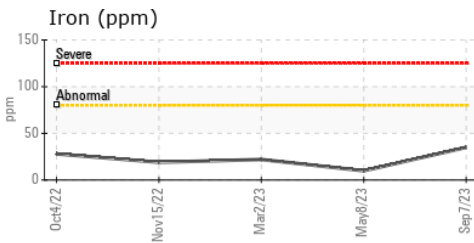
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

PARAMETER	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	74.0	72.6	70.4
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.2	11.0
Viscosity Index (VI)	Scale	ASTM D2270*	146	145	146

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 737 - Quebec City Hauling  
**Sample No.** : PC0078003 **Received** : 11 Sep 2023  
**Lab Number** : 02581271 **Diagnosed** : 11 Sep 2023  
**Unique Number** : 5642336 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KV40, VI, Visual )

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 Quebec City, QC  
 CA G2E 5G8  
 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.

T:  
 F: