



# OIL ANALYSIS REPORT

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

Machine Id  
**355**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

## RECOMMENDATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0846899</b>	WC0830045	WC0805608
Sample Date		Client Info		<b>29 Jan 2024</b>	14 Jun 2023	29 May 2023
Machine Age	kms	Client Info		<b>770193</b>	710147	704489
Oil Age	kms	Client Info		<b>60046</b>	6788	47848
Filter Age	kms	Client Info		<b>60046</b>	6788	47848
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>SEVERE</b>	NORMAL	SEVERE

## WEAR

Usure de piston.

Iron	ppm	ASTM D5185(m)	>165	<b>117</b>	45	138
Chromium	ppm	ASTM D5185(m)	>5	<b>4</b>	2	4
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>44</b>	14	<b>53</b>
Lead	ppm	ASTM D5185(m)	>150	<b>&lt;1</b>	0	1
Copper	ppm	ASTM D5185(m)	>90	<b>10</b>	6	40
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

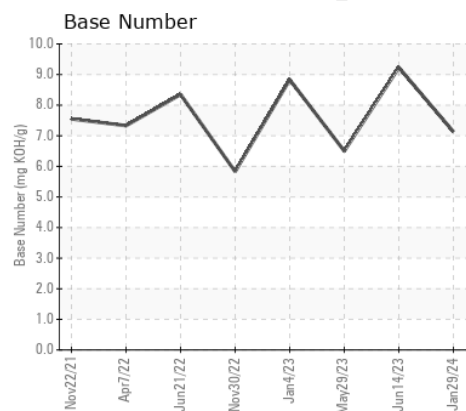
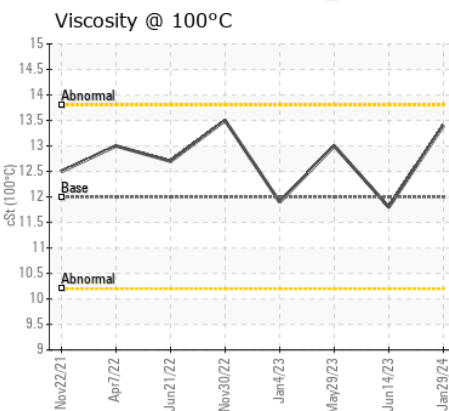
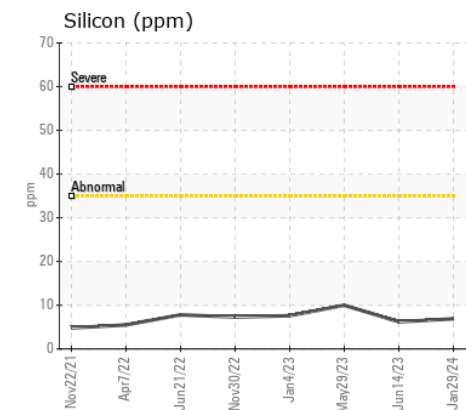
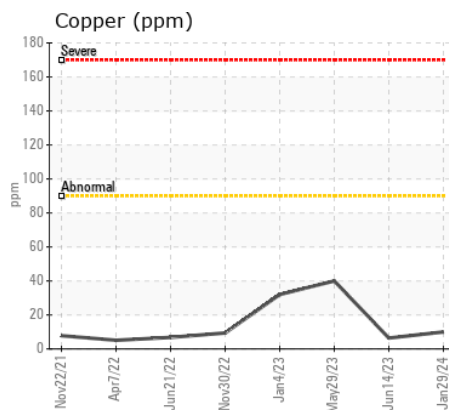
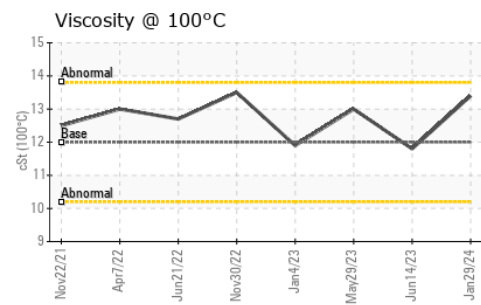
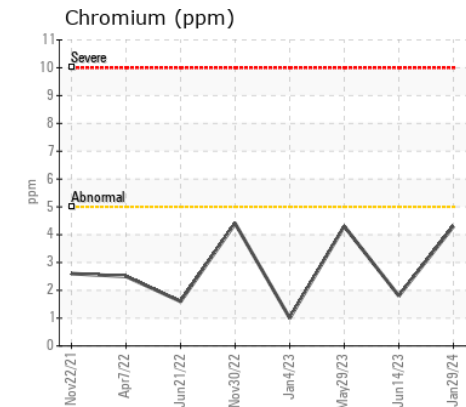
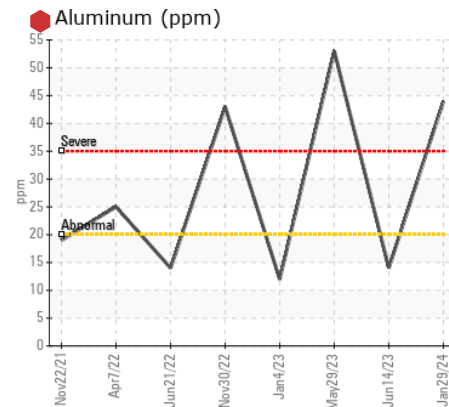
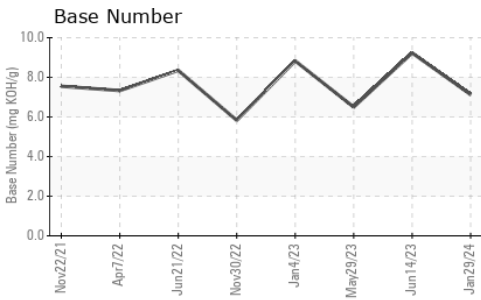
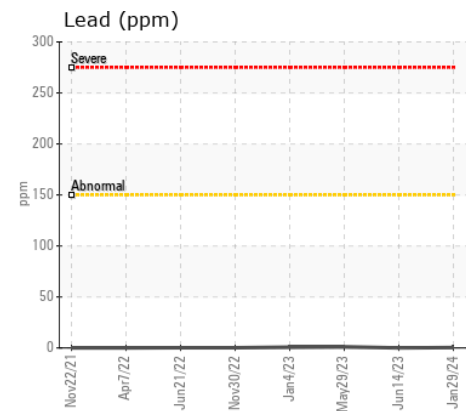
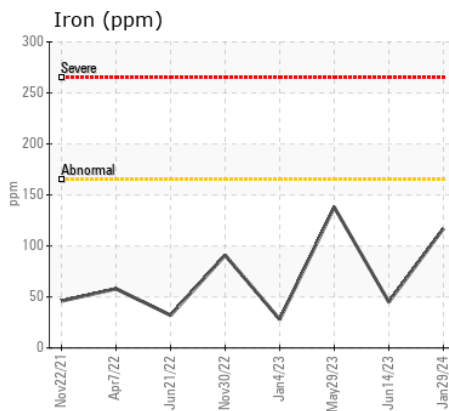
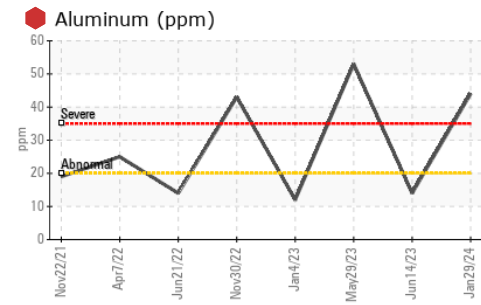
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>35	<b>7</b>	6	10
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	0	2
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*	>7.5	<b>1.9</b>	0.3	1.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>16.2</b>	8.9	15.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>34.2</b>	21.2	29.6
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. L'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		<b>7</b>	5	9
Boron	ppm	ASTM D5185(m)	2	<b>14</b>	29	13
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>66</b>	58	66
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185(m)	950	<b>1198</b>	1093	1136
Calcium	ppm	ASTM D5185(m)	1050	<b>984</b>	862	975
Phosphorus	ppm	ASTM D5185(m)	995	<b>1124</b>	1065	1134
Zinc	ppm	ASTM D5185(m)	1180	<b>1319</b>	1197	1266
Sulfur	ppm	ASTM D5185(m)	2600	<b>2704</b>	2744	2424
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>33.5</b>	18.1	28.3
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>7.13</b>	9.23	6.50
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>13.4</b>	11.8	13.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0846899  
**Lab Number** : 02616133  
**Unique Number** : 5733243  
**Test Package** : MOB 2  
**Received** : 16 Feb 2024  
**Tested** : 20 Feb 2024  
**Diagnosed** : 20 Feb 2024 - Kevin Marson

**Levis - Transport Laberge**  
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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.