



# OIL ANALYSIS REPORT

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

Machine Id

**241**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON UHP 5W30 (42 GAL)**

## RECOMMENDATION

Nous vous recommandons de vérifier la présence de particules métalliques visibles dans l'huile. 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>WC0885204</b>	WC0820367	WC0678249
Sample Date		Client Info		<b>14 Dec 2023</b>	05 Jun 2023	24 Jan 2023
Machine Age	kms	Client Info		<b>1060208</b>	1038099	1002231
Oil Age	kms	Client Info		<b>22703</b>	35868	27032
Filter Age	kms	Client Info		<b>22703</b>	35868	27032
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

Présence d'une faible concentration de métal visible.

Iron	ppm	ASTM D5185(m)	>165	<b>33</b>	23	17
Chromium	ppm	ASTM D5185(m)	>5	<b>1</b>	<1	<1
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>5</b>	3	2
Lead	ppm	ASTM D5185(m)	>150	<b>4</b>	2	<1
Copper	ppm	ASTM D5185(m)	>90	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>▲ LIGHT</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

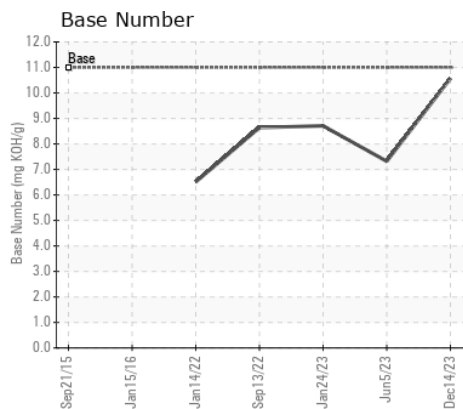
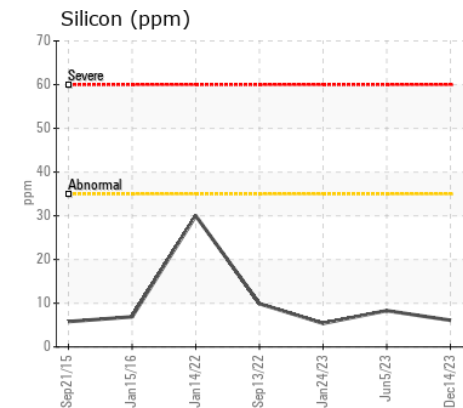
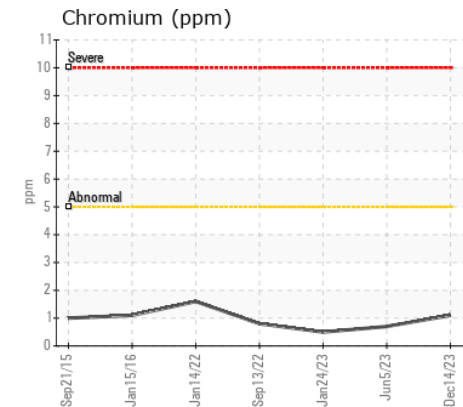
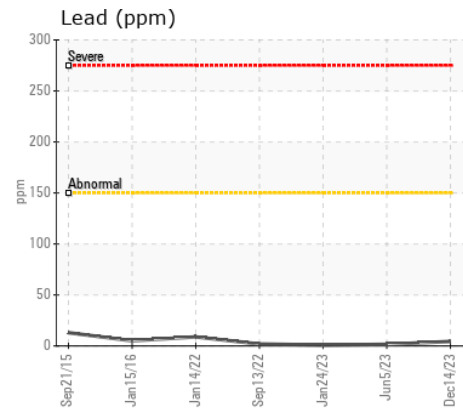
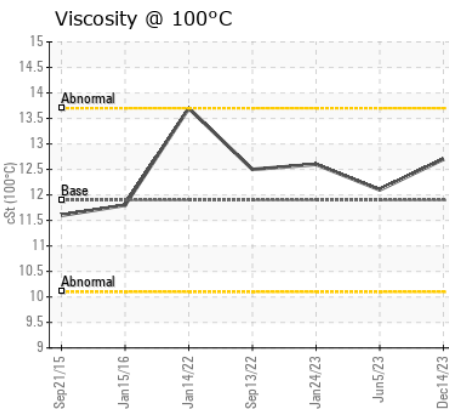
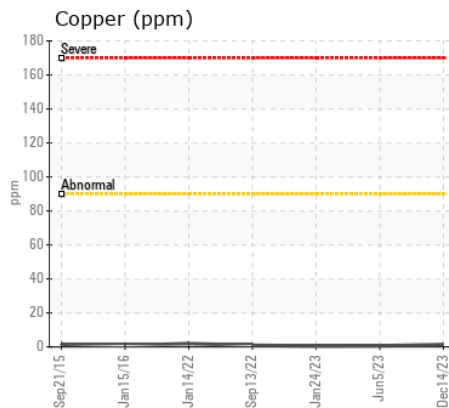
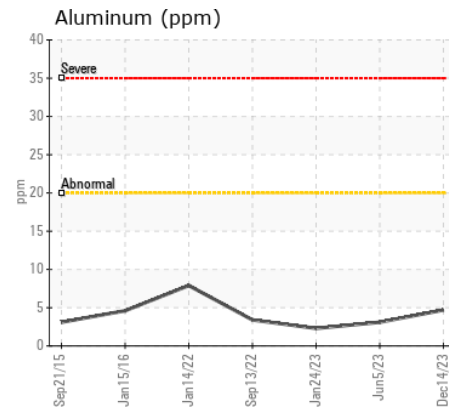
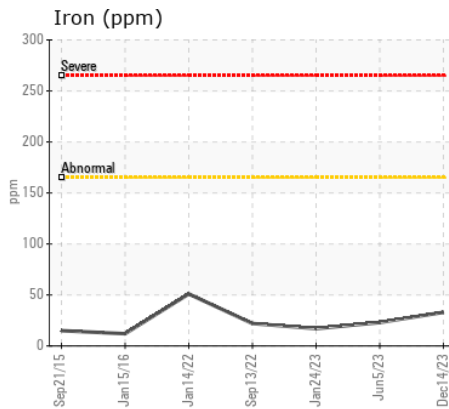
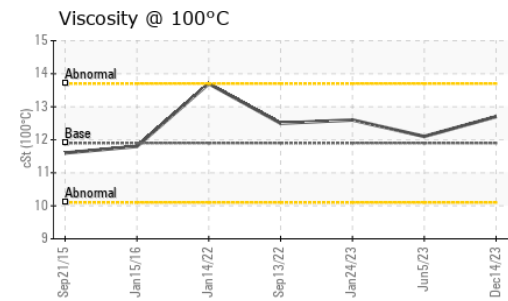
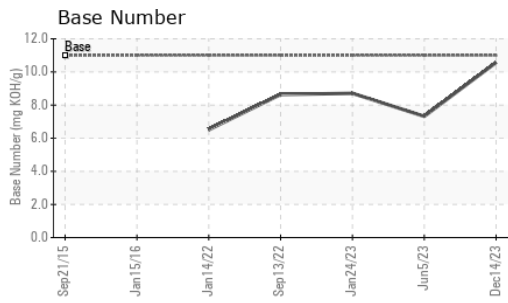
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>35	<b>6</b>	8	5
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	1
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>0.4</b>	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>13.6</b>	12.1	12.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>28.8</b>	26.7	25.1
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>5</b>	7	5
Boron	ppm	ASTM D5185(m)	0	<b>17</b>	23	27
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	64	<b>73</b>	61	66
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	<b>1319</b>	1105	1243
Calcium	ppm	ASTM D5185(m)	820	<b>1201</b>	1289	1065
Phosphorus	ppm	ASTM D5185(m)	1160	<b>1264</b>	1261	1257
Zinc	ppm	ASTM D5185(m)	1260	<b>1505</b>	1403	1426
Sulfur	ppm	ASTM D5185(m)	3000	<b>3167</b>	2985	3028
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>26.4</b>	24.1	23.1
Base Number (BN)	mg KOH/g	ASTM D2896*	11.0	<b>10.57</b>	7.32	8.71
Visc @ 100°C	cSt	ASTM D7279(m)	11.9	<b>12.7</b>	12.1	12.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0885204 **Received** : 03 Jan 2024  
**Lab Number** : 02606178 **Diagnosed** : 05 Jan 2024  
**Unique Number** : 5707264 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: BottomAnalysis, FILTERPATCH, Visual )

**Lachine - Transport Laberge**  
 435 rue Norman  
 Lachine, QC  
 CA H8S 1A5  
 Contact: Service Manager

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.

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