



# OIL ANALYSIS REPORT

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

Machine Id  
**351**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (38 LTR)**

## 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>WC0885196</b>	WC0846885	WC0846879
Sample Date		Client Info		<b>29 Dec 2023</b>	11 Oct 2023	13 Sep 2023
Machine Age	kms	Client Info		<b>895139</b>	868653	863379
Oil Age	kms	Client Info		<b>31760</b>	5274	57609
Filter Age	kms	Client Info		<b>31760</b>	5274	57609
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL

## WEAR

Usure de segment.

Iron	ppm	ASTM D5185(m)	>65	<b>42</b>	19	64
Chromium	ppm	ASTM D5185(m)	>5	<b>▲ 7</b>	3	<b>▲ 9</b>
Nickel	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>35	<b>24</b>	7	<b>▲ 25</b>
Lead	ppm	ASTM D5185(m)	>10	<b>2</b>	2	6
Copper	ppm	ASTM D5185(m)	>180	<b>95</b>	68	246
Tin	ppm	ASTM D5185(m)	>8	<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.

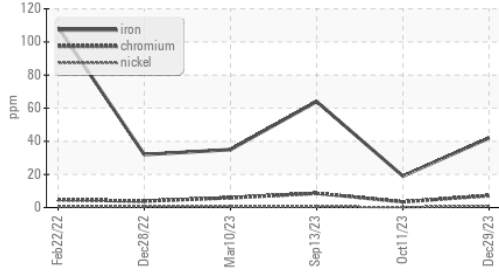
Silicon	ppm	ASTM D5185(m)	>15	<b>5</b>	4	6
Potassium	ppm	ASTM D5185(m)	>20	<b>20</b>	<1	7
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	0.0
Soot %	%	ASTM D7844*	>3	<b>0.9</b>	0.2	1.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.8</b>	7.3	13.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.3</b>	20.2	26.1
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

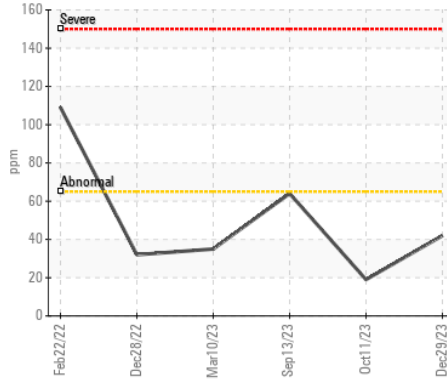
Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. L'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		<b>3</b>	4	7
Boron	ppm	ASTM D5185(m)	2	<b>8</b>	16	9
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	<b>61</b>	60	66
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	1
Magnesium	ppm	ASTM D5185(m)	950	<b>1033</b>	1044	1173
Calcium	ppm	ASTM D5185(m)	1050	<b>1007</b>	981	947
Phosphorus	ppm	ASTM D5185(m)	995	<b>907</b>	1010	987
Zinc	ppm	ASTM D5185(m)	1180	<b>1178</b>	1195	1270
Sulfur	ppm	ASTM D5185(m)	2600	<b>2130</b>	2572	2116
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.2</b>	16.0	25.5
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>8.03</b>	9.08	7.26
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>12.4</b>	11.7	12.6

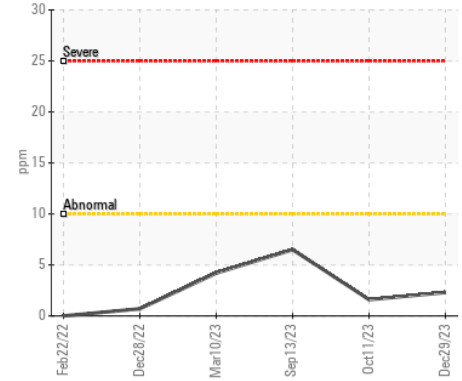
▲ Ferrous Alloys



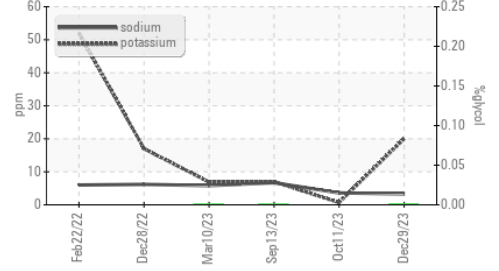
Iron (ppm)



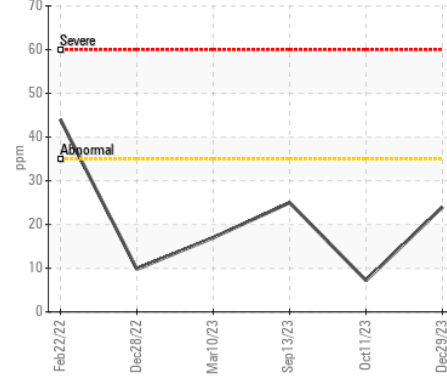
Lead (ppm)



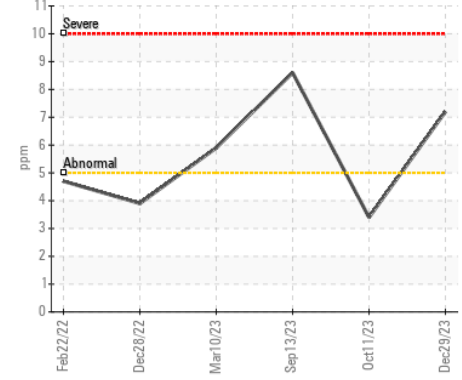
Glycol Contamination



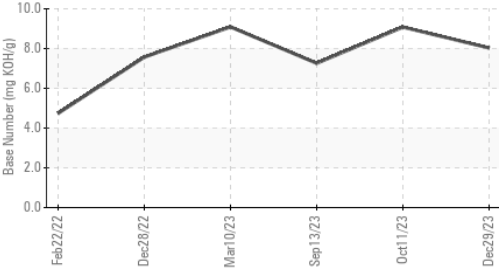
Aluminum (ppm)



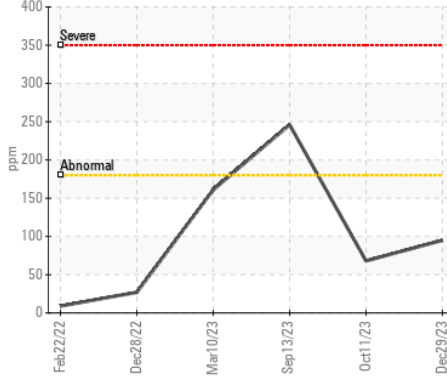
▲ Chromium (ppm)



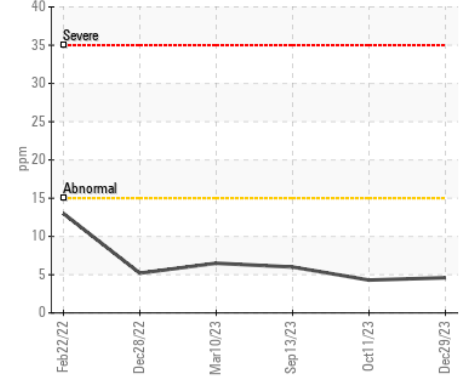
Base Number



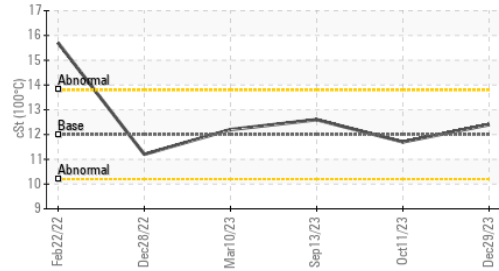
Copper (ppm)



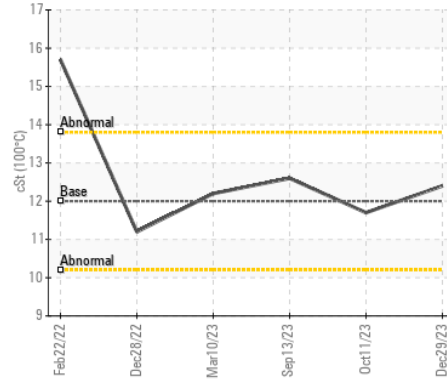
Silicon (ppm)



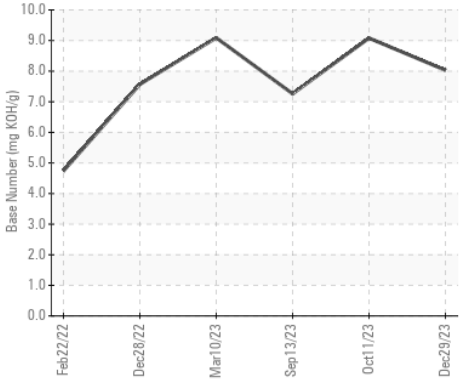
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0885196 **Received** : 19 Jan 2024  
**Lab Number** : 02609930 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 5711016 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: Glycol )

**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.

T:  
F: