



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

Machine Id  
**WESTERN STAR 172**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON UHP 5W40 (--- GAL)**

**RECOMMENDATION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0068988</b>	PC0068989	PC0068997
Sample Date		Client Info		<b>03 May 2024</b>	14 Feb 2024	01 Dec 2023
Machine Age	hrs	Client Info		<b>46690</b>	46302	45974
Oil Age	hrs	Client Info		<b>350</b>	328	610
Filter Age	hrs	Client Info		<b>350</b>	328	610
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

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

Iron	ppm	ASTM D5185(m)	>100	<b>24</b>	8	38
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	1	1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	1	12
Copper	ppm	ASTM D5185(m)	>330	<b>13</b>	20	495
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

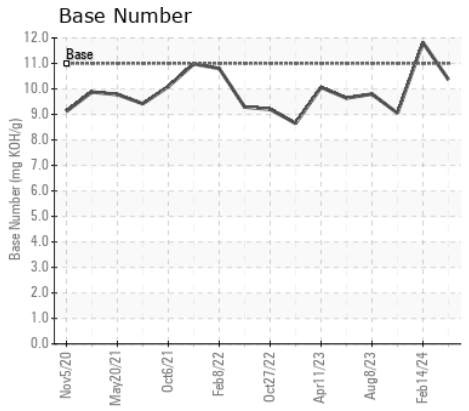
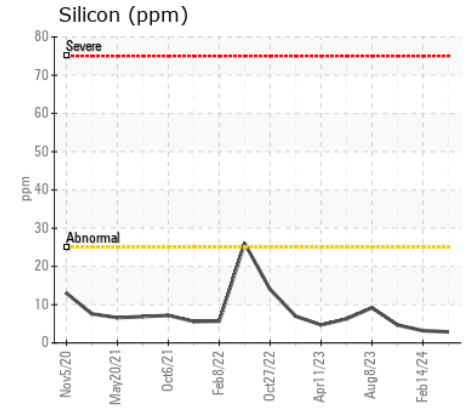
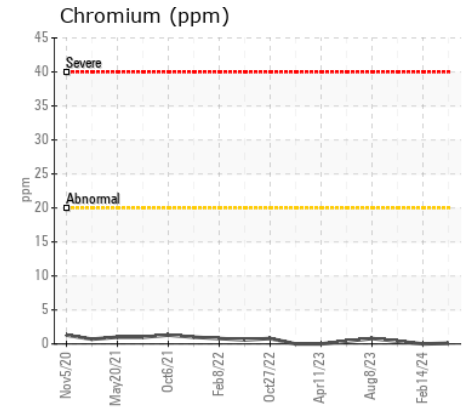
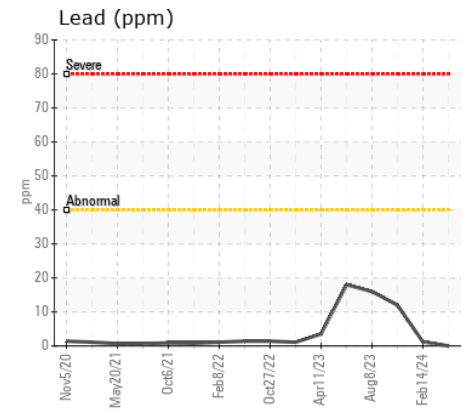
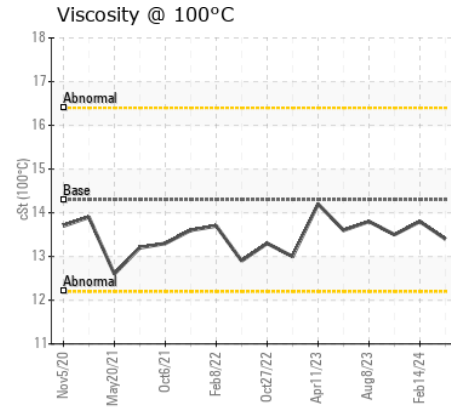
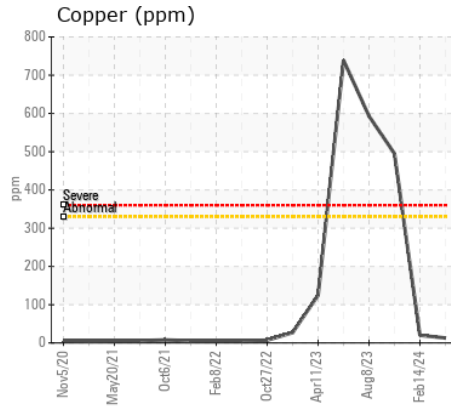
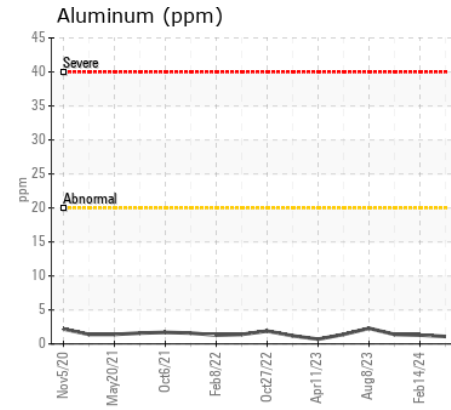
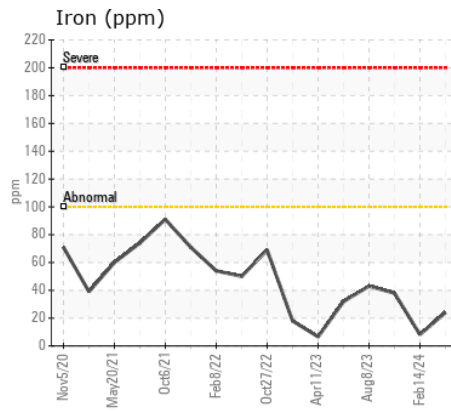
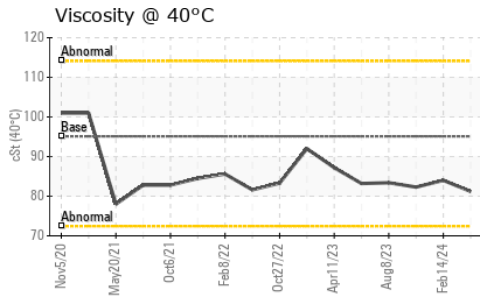
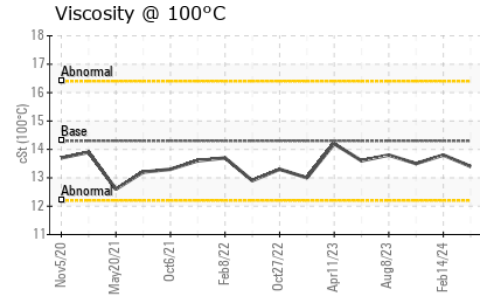
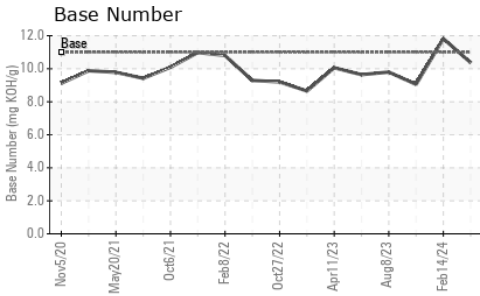
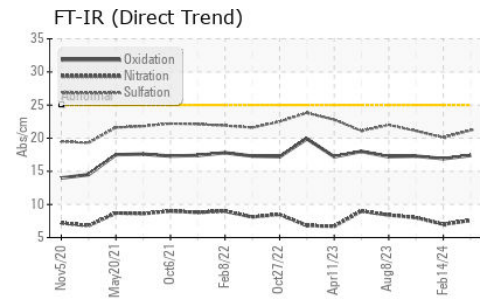
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	3	5
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	13	<1
Fuel		WC Method	>5	<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>	0.0	NEG
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	0.1	0.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.6</b>	7.0	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.2</b>	20.1	21.1
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'état de l'huile permet d'en prolonger l'utilisation.

Sodium	ppm	ASTM D5185(m)		<b>4</b>	5	4
Boron	ppm	ASTM D5185(m)	65	<b>28</b>	43	30
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	65	<b>54</b>	57	56
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1160	<b>973</b>	1027	993
Calcium	ppm	ASTM D5185(m)	820	<b>801</b>	823	857
Phosphorus	ppm	ASTM D5185(m)	1160	<b>924</b>	964	917
Zinc	ppm	ASTM D5185(m)	1260	<b>1120</b>	1088	1119
Sulfur	ppm	ASTM D5185(m)	3000	<b>2516</b>	2846	2421
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.4</b>	16.9	17.3
Base Number (BN)	mg KOH/g	ASTM D2896*	11.0	<b>10.37</b>	11.82	9.05
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	<b>81.2</b>	84.0	82.3
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>13.4</b>	13.8	13.5
Viscosity Index (VI)	Scale	ASTM D2270*	169	<b>168</b>	168	167



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0068988 **Received** : 07 May 2024  
**Lab Number** : 02633806 **Tested** : 07 May 2024  
**Unique Number** : 5774959 **Diagnosed** : 07 May 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV40, VI )

**CONSTRUCTION MESKANO**  
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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.