

Machine Id  
**WESTERN STAR 4900SB 20**  
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>PC0020565</b>	PC0040906	---
Sample Date		Client Info		<b>16 Apr 2024</b>	15 Jan 2024	---
Machine Age	hrs	Client Info		<b>11317</b>	10905	---
Oil Age	hrs	Client Info		<b>411</b>	489	---
Filter Age	hrs	Client Info		<b>411</b>	489	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

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

Iron	ppm	ASTM D5185(m)	>100	<b>45</b>	57	---
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	6	---
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	10	---
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	1	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

**CONTAMINATION**

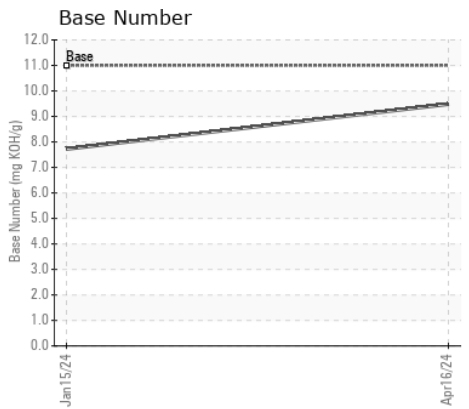
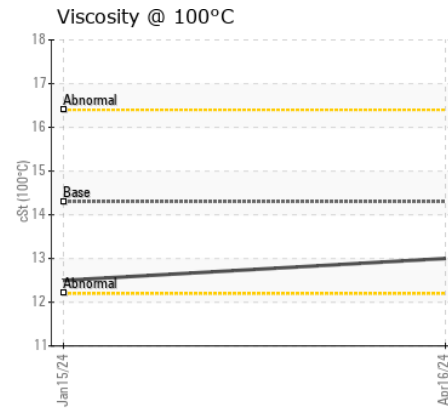
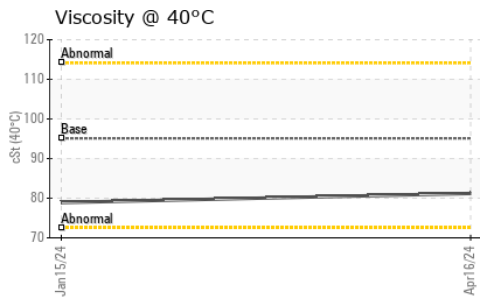
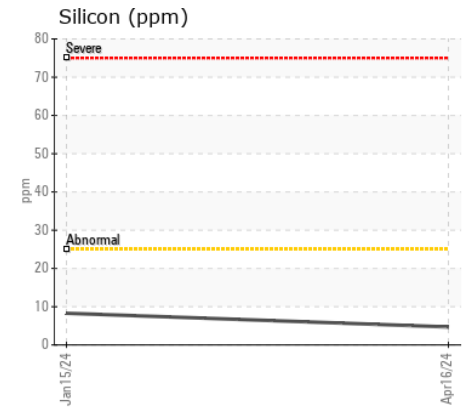
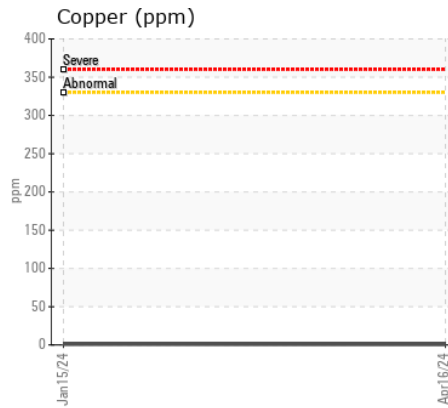
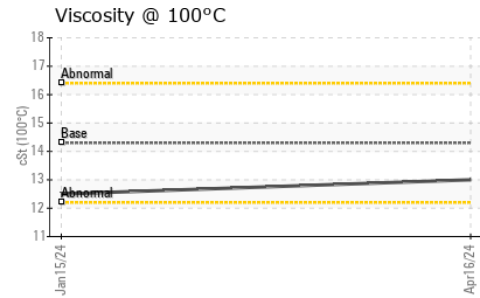
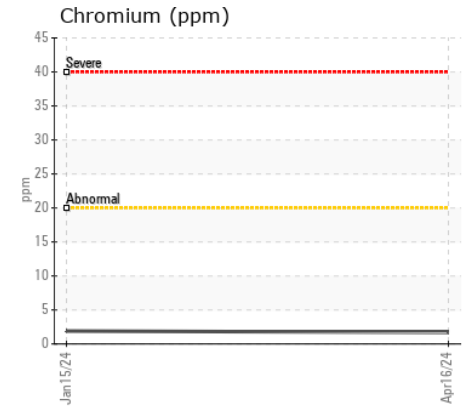
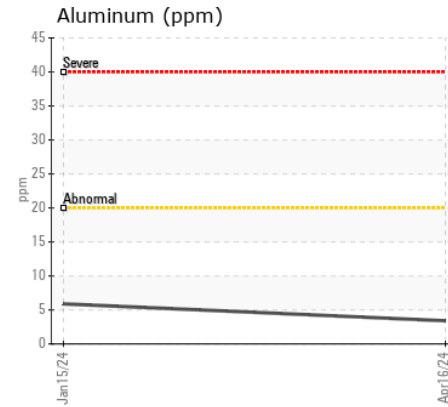
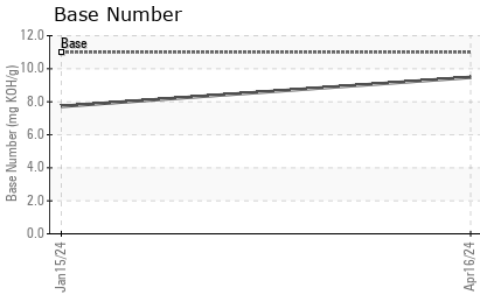
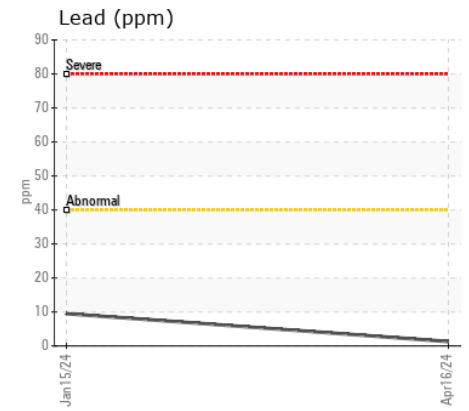
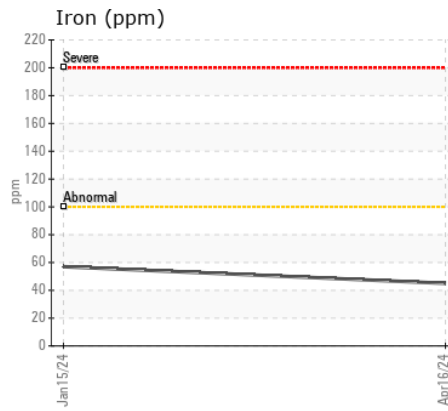
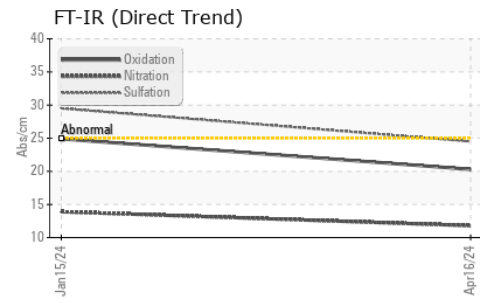
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	8	---
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	6	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0.9</b>	1.4	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.8</b>	13.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.5</b>	29.5	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	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>10</b>	6	---
Boron	ppm	ASTM D5185(m)	65	<b>23</b>	14	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	65	<b>58</b>	61	---
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185(m)	1160	<b>1043</b>	1105	---
Calcium	ppm	ASTM D5185(m)	820	<b>965</b>	943	---
Phosphorus	ppm	ASTM D5185(m)	1160	<b>989</b>	1048	---
Zinc	ppm	ASTM D5185(m)	1260	<b>1193</b>	1246	---
Sulfur	ppm	ASTM D5185(m)	3000	<b>2596</b>	2781	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.3</b>	24.9	---
Base Number (BN)	mg KOH/g	ASTM D2896*	11.0	<b>9.48</b>	7.72	---
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	<b>81.2</b>	78.9	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>13.0</b>	12.5	---
Viscosity Index (VI)	Scale	ASTM D2270*	169	<b>160</b>	156	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0020565 **Received** : 18 Apr 2024  
**Lab Number** : 02629892 **Tested** : 19 Apr 2024  
**Unique Number** : 5763024 **Diagnosed** : 19 Apr 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV40, VI )

**CONSTRUCTION ET PAVAGE PORTNEUF INC**  
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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.