

Machine Id
WESTERN STAR 16-88
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		PC0074242	PC0068990	PC0063376
Sample Date		Client Info		06 Mar 2024	05 Dec 2023	06 Jun 2023
Machine Age	hrs	Client Info		17120	16363	15392
Oil Age	hrs	Client Info		407	546	380
Filter Age	hrs	Client Info		407	546	380
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185(m)	>200	14	78	22
Chromium	ppm	ASTM D5185(m)	>20	<1	6	1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	2	6	4
Lead	ppm	ASTM D5185(m)	>30	1	6	2
Copper	ppm	ASTM D5185(m)	>30	4	4	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

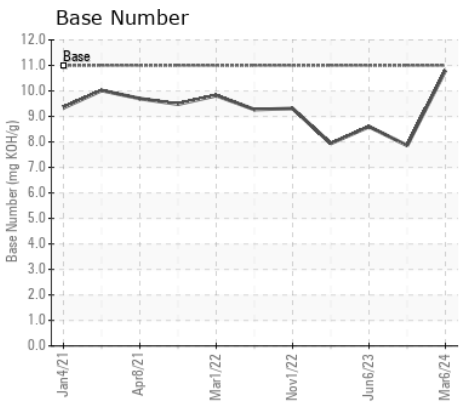
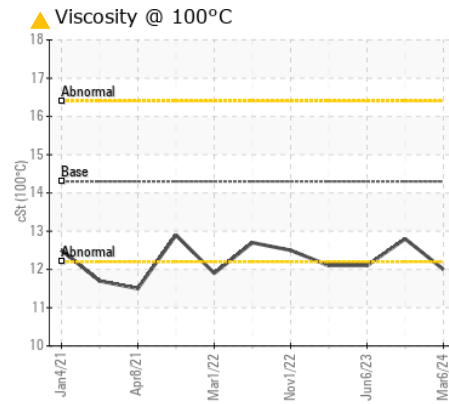
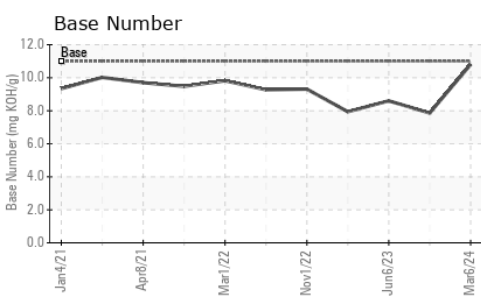
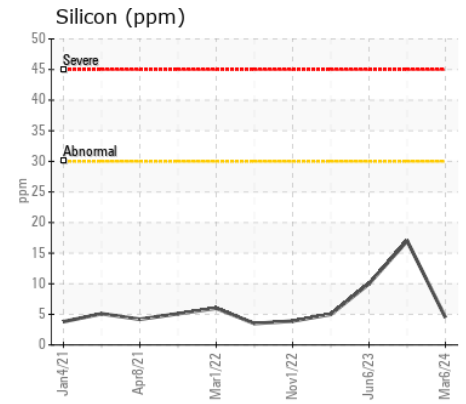
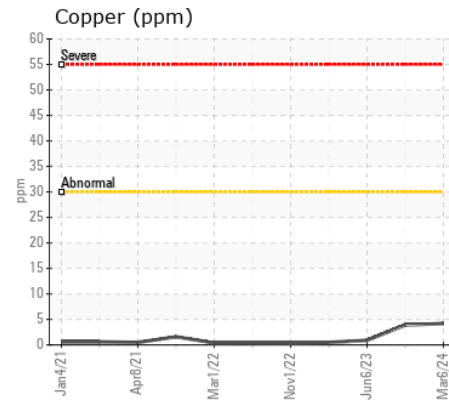
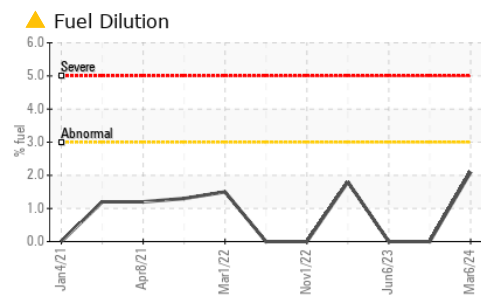
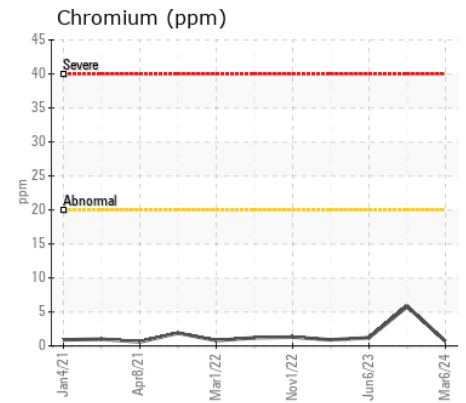
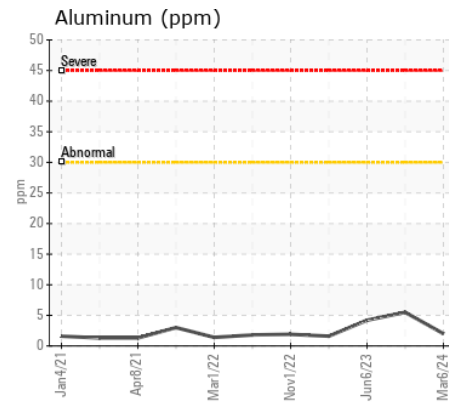
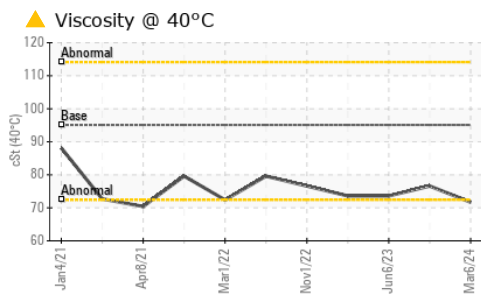
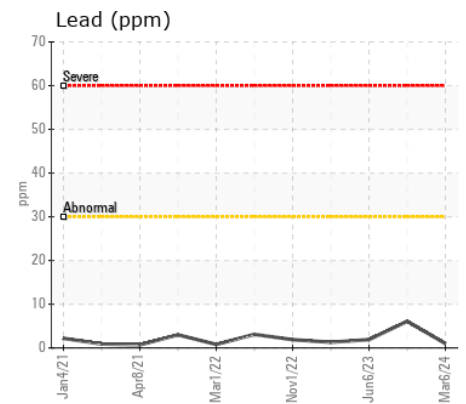
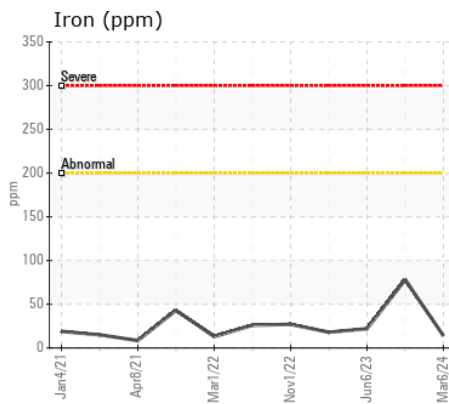
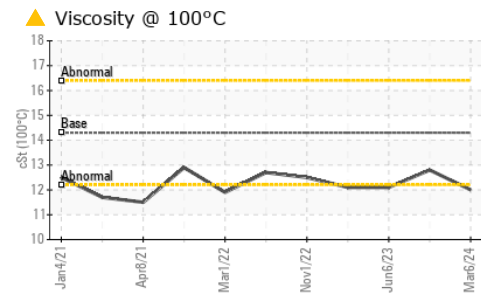
Légère dilution de carburant dans l'huile.

Silicon	ppm	ASTM D5185(m)	>30	4	17	10
Potassium	ppm	ASTM D5185(m)	>20	3	3	4
Fuel	%	ASTM D7593*	>3.0	▲ 2.1	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.7	▲ 4.2	1.2
Nitration	Abs/cm	ASTM D7624*	>20	9.2	12.1	9.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.4	28.4	22.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. Il y a du carburant dans l'huile, ce qui réduit la viscosité. L'état de l'huile permet d'en prolonger l'utilisation.

Sodium	ppm	ASTM D5185(m)		4	7	6
Boron	ppm	ASTM D5185(m)	65	39	25	41
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	65	58	60	59
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	1045	1094	1020
Calcium	ppm	ASTM D5185(m)	820	846	829	979
Phosphorus	ppm	ASTM D5185(m)	1160	996	967	1081
Zinc	ppm	ASTM D5185(m)	1260	1153	1179	1192
Sulfur	ppm	ASTM D5185(m)	3000	2852	2649	2849
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.3	18.9	17.9
Base Number (BN)	mg KOH/g	ASTM D2896*	11.0	10.80	7.86	8.60
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	▲ 71.7	76.6	73.6
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	▲ 12.0	12.8	12.1
Viscosity Index (VI)	Scale	ASTM D2270*	169	164	167	161



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0074242 **Received** : 08 Mar 2024
Lab Number : 02620731 **Tested** : 11 Mar 2024
Unique Number : 5737841 **Diagnosed** : 11 Mar 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)
 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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