



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

**Parked**

Machine Id

**3213**

Component

**Diesel Engine**

Fluid

**ESSO XD-3 EXTRA 15W40 CJ-4 (--- LTR)**

## 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>WC0276103</b>	WC0274538	WC0274341
Sample Date		Client Info		<b>27 Mar 2016</b>	07 Feb 2016	28 Dec 2015
Machine Age	kms	Client Info		<b>374491</b>	334487	298544
Oil Age	kms	Client Info		<b>0</b>	35943	36597
Filter Age	kms	Client Info		<b>0</b>	35943	36597
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>23</b>	16	13
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>2</b>	1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	4	6
Lead	ppm	ASTM D5185(m)	>40	<b>8</b>	7	3
Copper	ppm	ASTM D5185(m)	>330	<b>7</b>	33	32
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

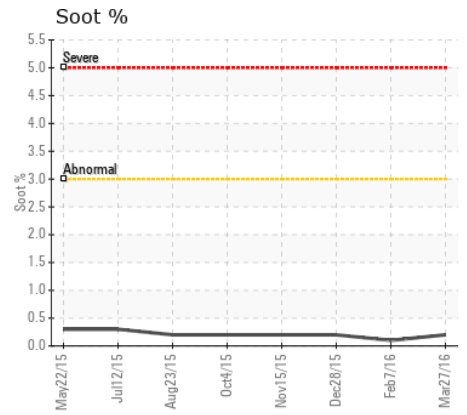
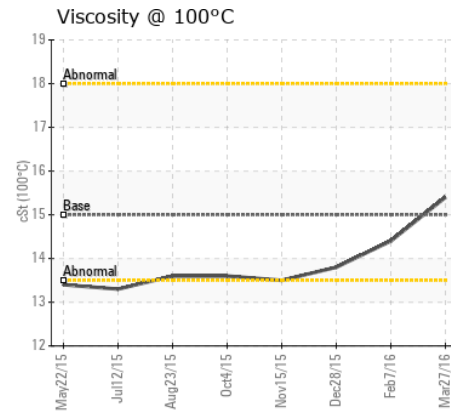
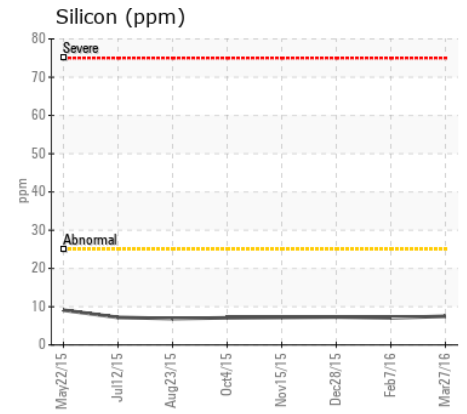
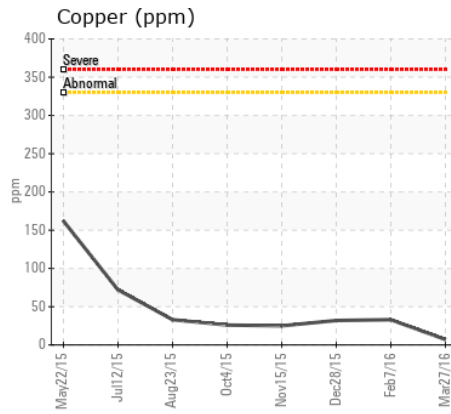
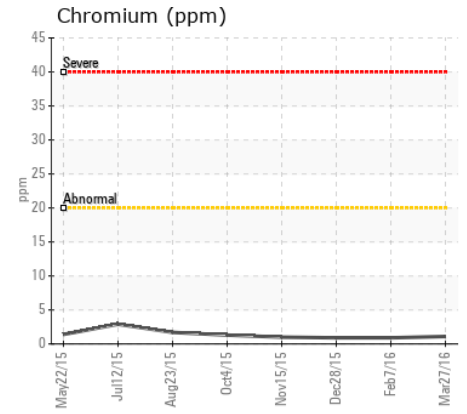
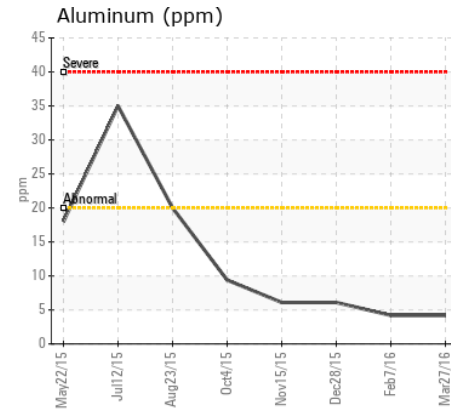
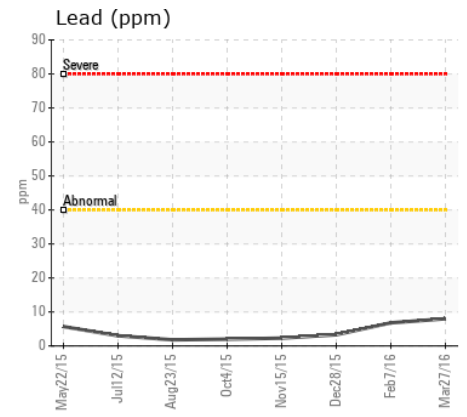
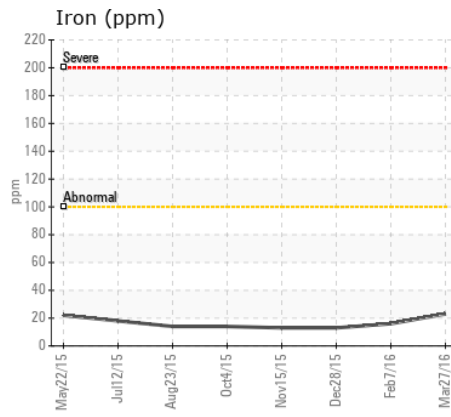
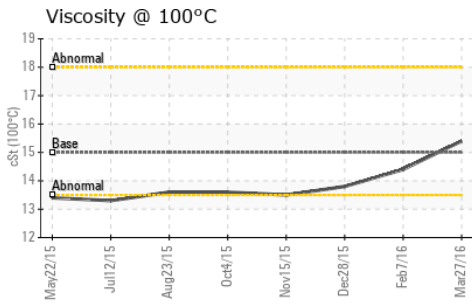
Il n'y a aucun indice de contamination dans le composant.

Silicon	ppm	ASTM D5185(m)	>25	<b>8</b>	7	7
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	3
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>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.1	0.2
Nitration	Abs/cm	ASTM D7624*		<b>11.2</b>	10.5	9.3
Sulfation	Abs/.1mm	ASTM D7415*		<b>29.1</b>	27.4	24.1
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		<b>6</b>	3	5
Boron	ppm	ASTM D5185(m)		<b>4</b>	11	9
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>2</b>	8	7
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>10</b>	14	8
Calcium	ppm	ASTM D5185(m)	2360	<b>2903</b>	2717	2506
Phosphorus	ppm	ASTM D5185(m)	1110	<b>1178</b>	1093	1007
Zinc	ppm	ASTM D5185(m)	1220	<b>1413</b>	1316	1200
Sulfur	ppm	ASTM D5185(m)		<b>3654</b>	3356	3208
Oxidation	Abs/.1mm	ASTM D7414*		<b>24.8</b>	24.0	19.0
Visc @ 100°C	cSt	ASTM D7279(m)	15	<b>15.4</b>	14.4	13.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0276103 **Received** : 29 Mar 2016  
**Lab Number** : 02061643 **Tested** : 29 Mar 2016  
**Unique Number** : 4287951 **Diagnosed** : 29 Mar 2016 - Wes Davis  
**Test Package** : MOB 1

**WEARCHECK CANADA 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.