



# OIL ANALYSIS REPORT

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

Area

**Garage**

Machine Id

**4100-VMC-006 (S/N 2647U010516)**

Component

**6 Hydraulic System**

Fluid

**ESSO HYDRAUL EXTRA (150 LTR)**

## RECOMMENDATION

Nous recommandons le remplacement des filtres de ce composant. 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>WC0908377</b>	WC0619021	WC0732794
Sample Date		Client Info		<b>29 Feb 2024</b>	28 Feb 2023	21 Nov 2022
Machine Age	hrs	Client Info		<b>19945</b>	19945	19945
Oil Age	hrs	Client Info		<b>17519</b>	17519	17519
Filter Age	hrs	Client Info		<b>17519</b>	17519	17519
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

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

Iron	ppm	ASTM D5185(m)	>20	<b>12</b>	17	17
Chromium	ppm	ASTM D5185(m)	>20	<b>3</b>	2	1
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	1	1
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	1
Copper	ppm	ASTM D5185(m)	>20	<b>4</b>	6	6
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

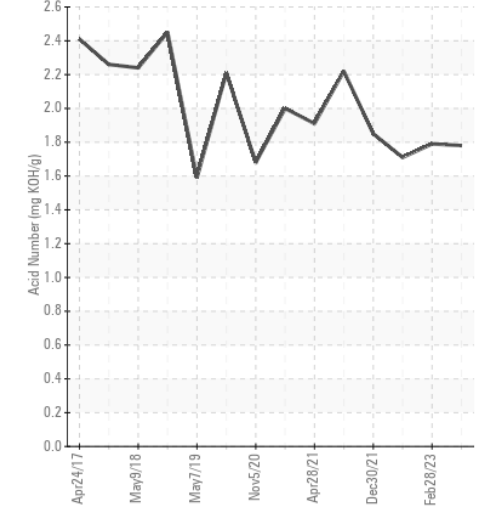
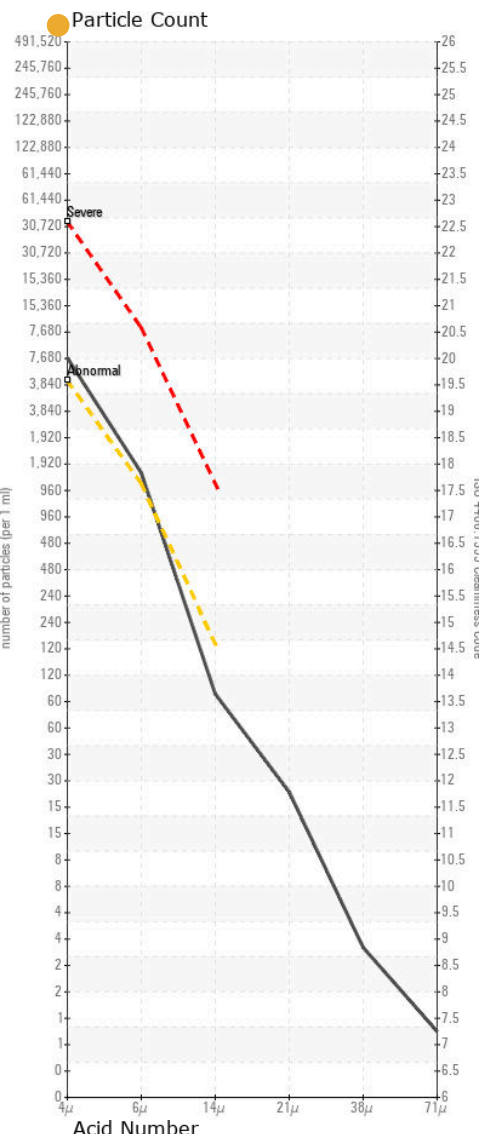
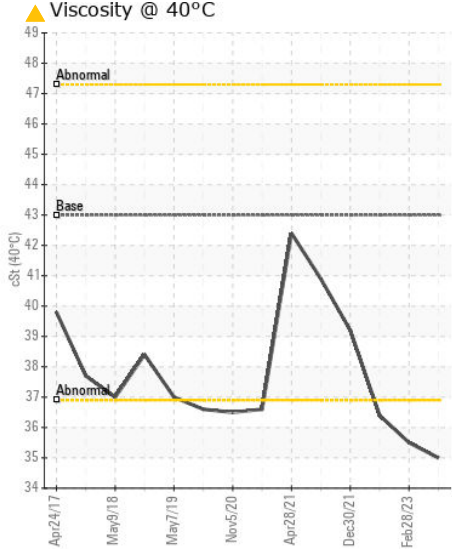
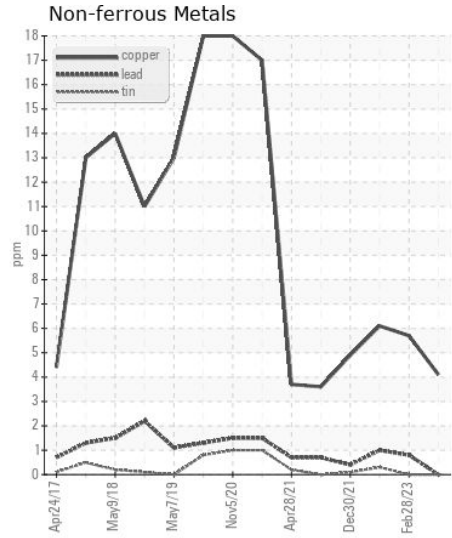
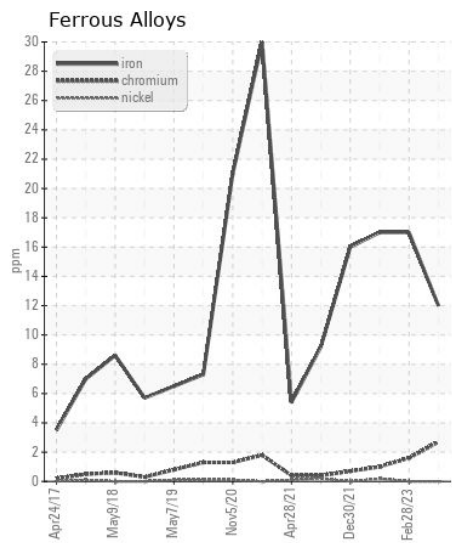
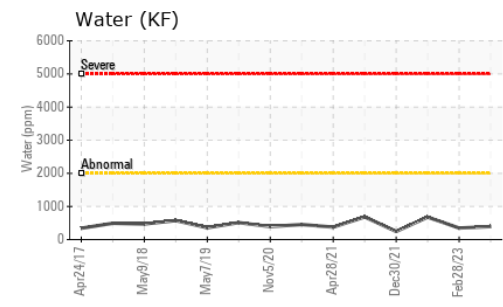
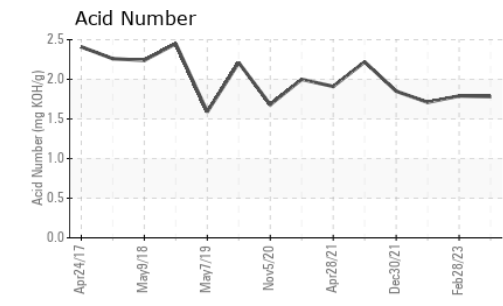
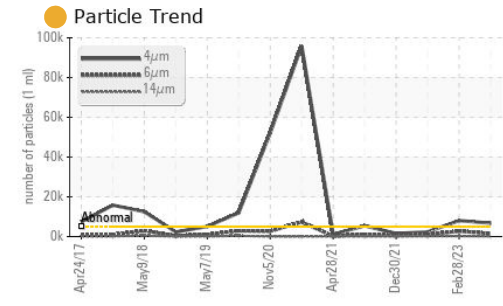
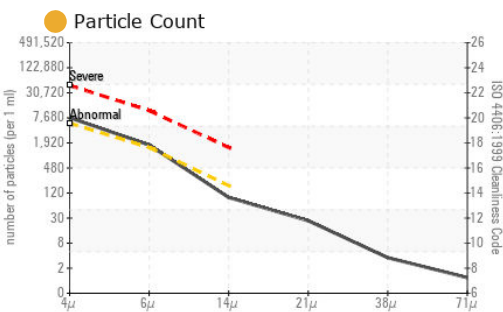
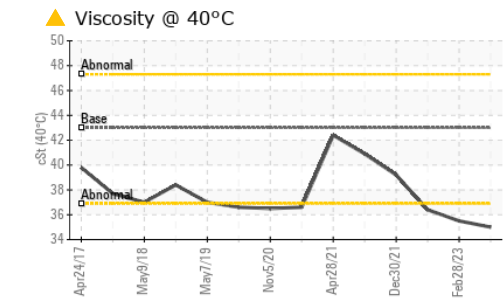
Il y a une légère quantité de limon (particules de 4 à 14 microns) dans l'huile. La teneur en eau est négligeable.

Silicon	ppm	ASTM D5185(m)	>15	<b>1</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	5	1
Water	%	ASTM D6304*	>0.2	<b>0.039</b>	0.034	0.067
ppm Water	ppm	ASTM D6304*	>2000	<b>392</b>	348.1	677.7
Particles >4µm		ASTM D7647	>5000	<b>6748</b>	8040	2353
Particles >6µm		ASTM D7647	>1300	<b>1498</b>	2751	991
Particles >14µm		ASTM D7647	>160	<b>83</b>	227	148
Particles >21µm		ASTM D7647	>40	<b>23</b>	52	48
Particles >38µm		ASTM D7647	>10	<b>3</b>	1	2
Particles >71µm		ASTM D7647	>3	<b>1</b>	1	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>20/18/14</b>	20/19/15	18/17/14
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

La viscosité de l'huile est inférieure à la viscosité type, ce qui pourrait indiquer l'ajout d'un grade d'huile plus léger. Le AN est acceptable pour ce fluide. L'état de l'huile permet d'en prolonger l'utilisation.

Sodium	ppm	ASTM D5185(m)		<b>6</b>	4	3
Boron	ppm	ASTM D5185(m)		<b>3</b>	4	4
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	3
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>17</b>	19	20
Calcium	ppm	ASTM D5185(m)		<b>3481</b>	3691	3667
Phosphorus	ppm	ASTM D5185(m)		<b>1036</b>	1147	1151
Zinc	ppm	ASTM D5185(m)		<b>1264</b>	1258	1247
Sulfur	ppm	ASTM D5185(m)		<b>3289</b>	3472	3471
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>1.78</b>	1.79	1.71
Visc @ 40°C	cSt	ASTM D7279(m)	43	<b>35.0</b>	35.5	36.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0908377  
**Lab Number** : 02627353  
**Unique Number** : 5760485  
**Test Package** : IND 2 ( Additional Tests: KF )  
**Received** : 08 Apr 2024  
**Tested** : 10 Apr 2024  
**Diagnosed** : 10 Apr 2024 - Kevin Marson

**RTA - ALMA**  
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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.