



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area

**GARAGE**

Machine Id

**6000-VML-008**

Component

**Hydraulic System**

Fluid

**ESSO ATF DEXRON III/MERCON (60 LTR)**

## RECOMMENDATION

Vérifier les scelles et/ou les filtres pour des points d'entrée des contaminants. Le reniflard d'air doit être réparé. S'il n'est pas classé, nous vous recommandons de le remplacer par un reniflard à air adapté au micron et / ou au dessiccant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Nous recommandons le remplacement des filtres de ce composant. Confirmez la source du lubrifiant utilisé pour l'appoint/remplissage. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

## WEAR

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

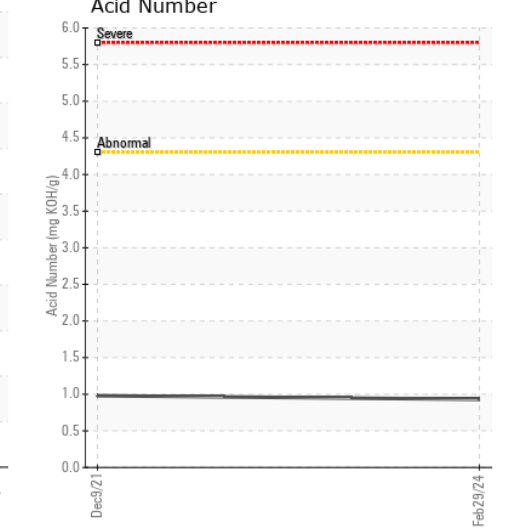
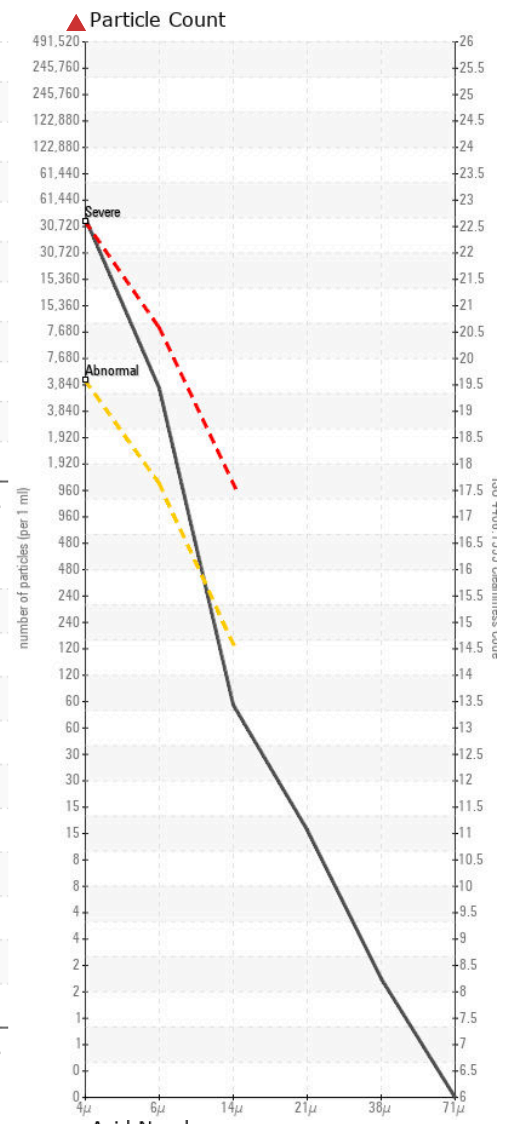
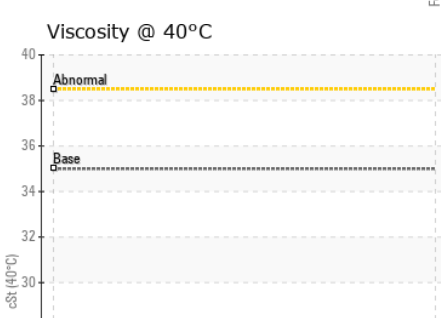
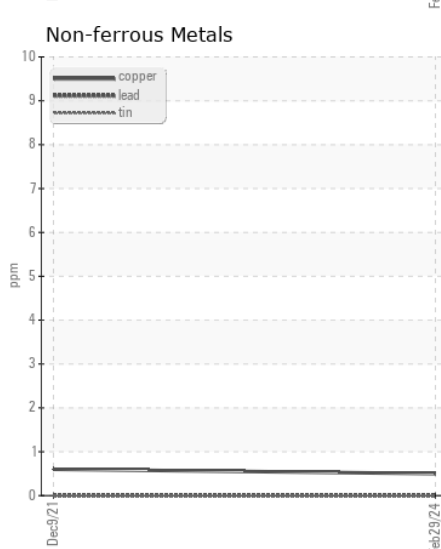
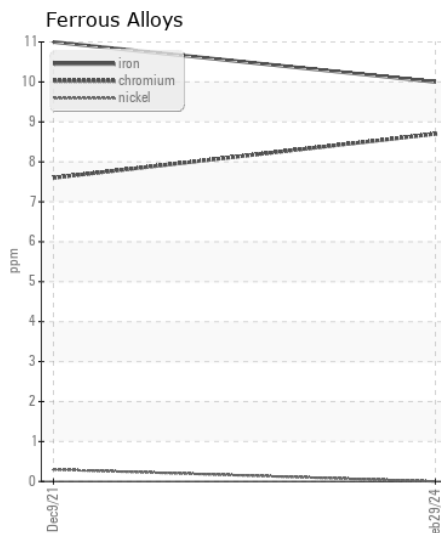
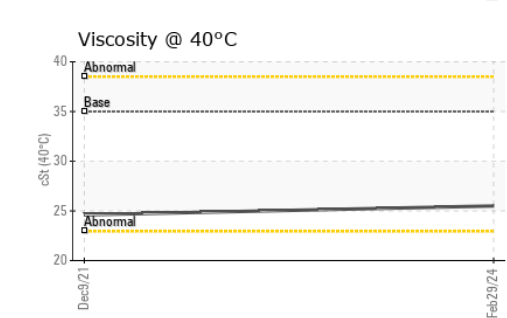
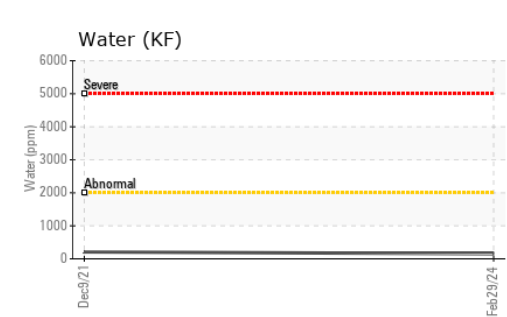
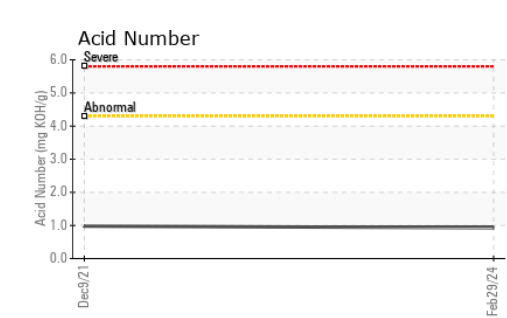
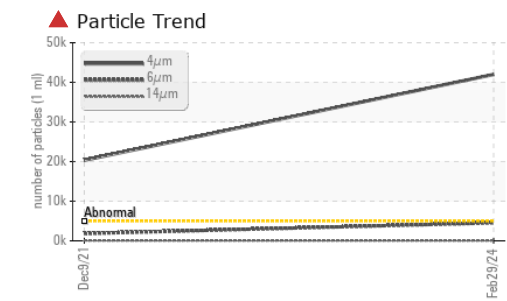
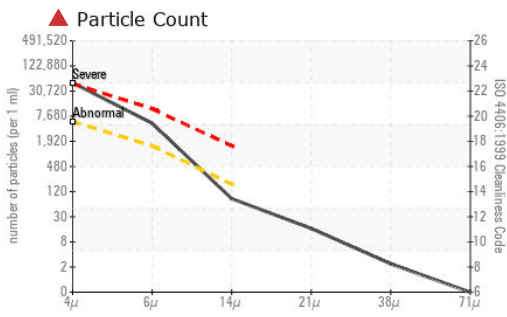
## CONTAMINATION

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

## FLUID CONDITION

Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. Le AN est acceptable pour ce fluide. l'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0908378</b>	WC0619016	---
Sample Date		Client Info		<b>29 Feb 2024</b>	09 Dec 2021	---
Machine Age	hrs	Client Info		<b>4715</b>	428	---
Oil Age	hrs	Client Info		<b>4715</b>	428	---
Filter Age	hrs	Client Info		<b>4715</b>	428	---
Oil Changed		Client Info		<b>N/A</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	Not Changd	---
Sample Status				<b>SEVERE</b>	ABNORMAL	---
Iron	ppm	ASTM D5185(m)	>20	<b>10</b>	11	---
Chromium	ppm	ASTM D5185(m)	>20	<b>9</b>	8	---
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Silicon	ppm	ASTM D5185(m)	>15	<b>11</b>	13	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	---
Water	%	ASTM D6304*	>0.2	<b>0.015</b>	0.020	---
ppm Water	ppm	ASTM D6304*	>2000	<b>153</b>	209.8	---
Particles >4µm		ASTM D7647	>5000	<b>▲ 41991</b>	▲ 20329	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 4532</b>	● 1839	---
Particles >14µm		ASTM D7647	>160	<b>72</b>	81	---
Particles >21µm		ASTM D7647	>40	<b>14</b>	13	---
Particles >38µm		ASTM D7647	>10	<b>2</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 23/19/13</b>	▲ 22/18/14	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---
Sodium	ppm	ASTM D5185(m)		<b>3</b>	2	---
Boron	ppm	ASTM D5185(m)		<b>97</b>	107	---
Barium	ppm	ASTM D5185(m)		<b>2</b>	2	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)		<b>4</b>	3	---
Calcium	ppm	ASTM D5185(m)		<b>77</b>	90	---
Phosphorus	ppm	ASTM D5185(m)		<b>274</b>	320	---
Zinc	ppm	ASTM D5185(m)	0	<b>56</b>	60	---
Sulfur	ppm	ASTM D5185(m)		<b>791</b>	867	---
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.93</b>	0.98	---
Visc @ 40°C	cSt	ASTM D7279(m)	35	<b>25.5</b>	24.6	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0908378  
**Lab Number** : 02627355  
**Unique Number** : 5760487  
**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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 ALMA, QC  
 CA G8B 6T3  
 Contact: Guy Dufour  
 guy.dufour-almacou@riotinto.com

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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