



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area
Garage
 Machine Id
5502-VMC-007 (S/N 2647U020516)
 Component
Hydraulic System
 Fluid
ESSO HYDRAUL EXTRA (135 LTR)

RECOMMENDATION

Nous recommandons le remplacement des filtres de ce composant.
 Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0908376	WC0732802	WC0732788
Sample Date		Client Info		29 Feb 2024	15 Jun 2023	21 Nov 2022
Machine Age	hrs	Client Info		28286	23807	22781
Oil Age	hrs	Client Info		28286	23807	22781
Filter Age	hrs	Client Info		28286	0	22781
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185(m)	>20	9	11	14
Chromium	ppm	ASTM D5185(m)	>20	4	3	4
Nickel	ppm	ASTM D5185(m)	>20	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	1	2
Lead	ppm	ASTM D5185(m)	>20	0	0	<1
Copper	ppm	ASTM D5185(m)	>20	5	4	6
Tin	ppm	ASTM D5185(m)	>20	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

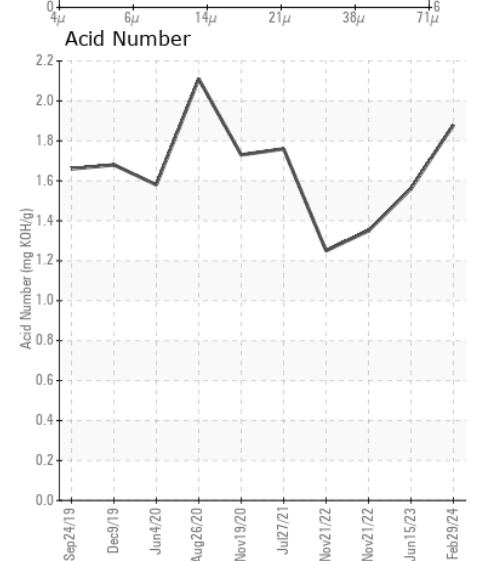
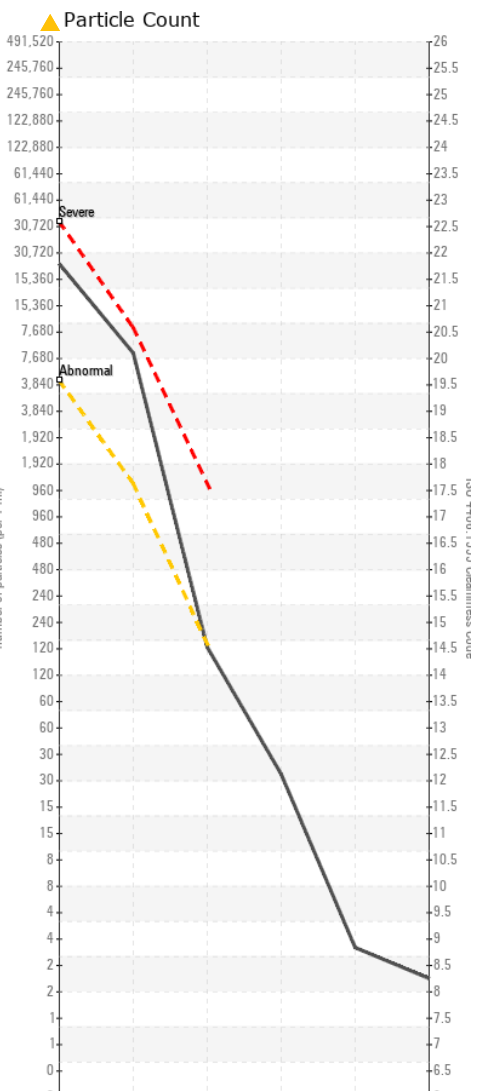
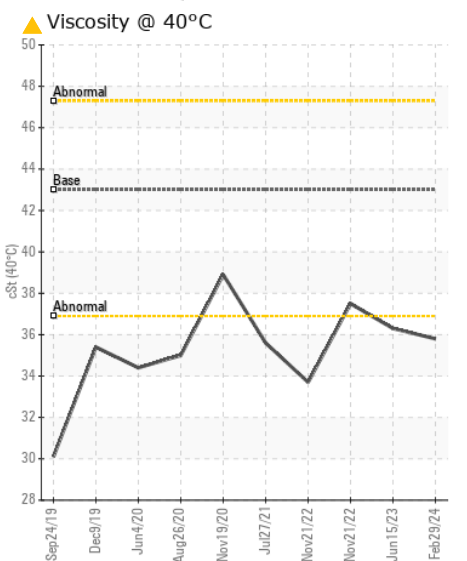
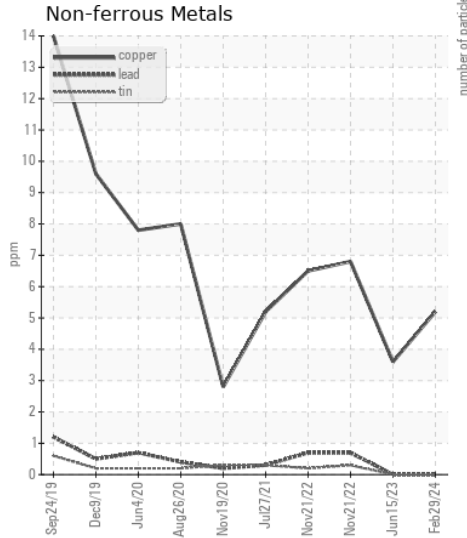
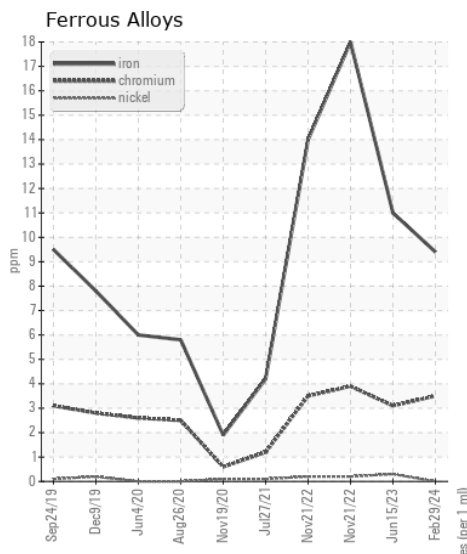
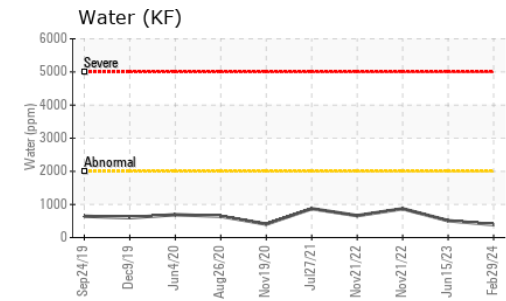
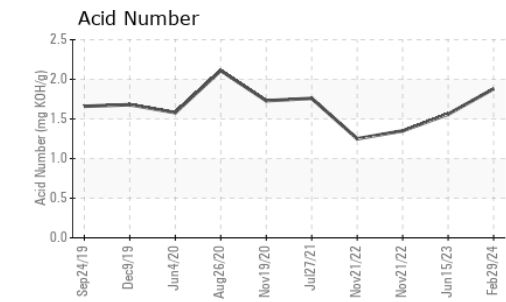
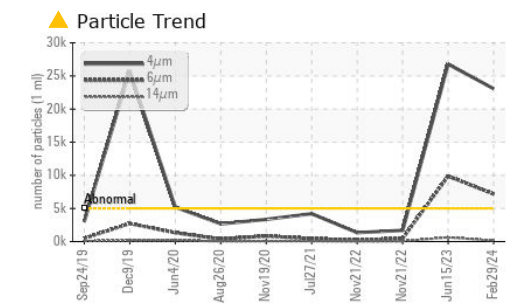
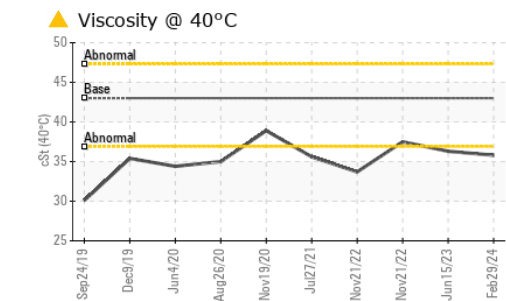
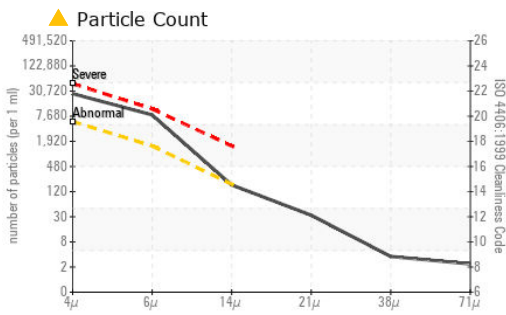
Il y a une quantité modérée de particules (de 4 à 14 microns) dans l'huile. La teneur en eau est négligeable.

Silicon	ppm	ASTM D5185(m)	>15	1	3	2
Potassium	ppm	ASTM D5185(m)	>20	1	<1	2
Water	%	ASTM D6304*	>0.2	0.039	0.050	0.087
ppm Water	ppm	ASTM D6304*	>2000	391	509.5	870.8
Particles >4µm		ASTM D7647	>5000	▲ 23081	▲ 26781	1344
Particles >6µm		ASTM D7647	>1300	▲ 7176	▲ 9887	205
Particles >14µm		ASTM D7647	>160	153	▲ 632	18
Particles >21µm		ASTM D7647	>40	29	▲ 148	6
Particles >38µm		ASTM D7647	>10	3	3	0
Particles >71µm		ASTM D7647	>3	2	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/20/14	▲ 22/20/16	18/15/11
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	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'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

Sodium	ppm	ASTM D5185(m)		4	3	3
Boron	ppm	ASTM D5185(m)		2	2	3
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	1	1
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		15	15	12
Calcium	ppm	ASTM D5185(m)		3606	3573	3647
Phosphorus	ppm	ASTM D5185(m)		1063	1161	1163
Zinc	ppm	ASTM D5185(m)		1292	1246	1249
Sulfur	ppm	ASTM D5185(m)		3336	3378	3467
Acid Number (AN)	mg KOH/g	ASTM D974*		1.88	1.56	1.35
Visc @ 40°C	cSt	ASTM D7279(m)	43	▲ 35.8	36.3	37.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0908376 **Received** : 08 Apr 2024
Lab Number : 02627328 **Tested** : 10 Apr 2024
Unique Number : 5760460 **Diagnosed** : 10 Apr 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: KF)

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 ALMA, QC
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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.