



# OIL ANALYSIS REPORT

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

Area  
**MCH**  
Machine Id  
**6202-UHO-008 (S/N 04)**  
Component  
**Hydraulic System**  
Fluid  
**ESSO FIREXX HF-DU 46 (--- LTR)**

## RECOMMENDATION

Nous vous recommandons de remplacer le filtre et d'utiliser un système de filtrage hors-ligne afin d'améliorer la propreté du fluide. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. À NOTER: S.V.P. inclure, avec le prochain échantillon, des détails de la capacité du réservoir et le type et le degré de filtration.

## WEAR

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

## CONTAMINATION

Il y a une quantité modérée de matières particulaires (2 à 100 µm de taille) présente dans l'huile. La propreté du système est supérieure à la limite acceptable pour votre objectif de propreté ISO 4406.

## FLUID CONDITION

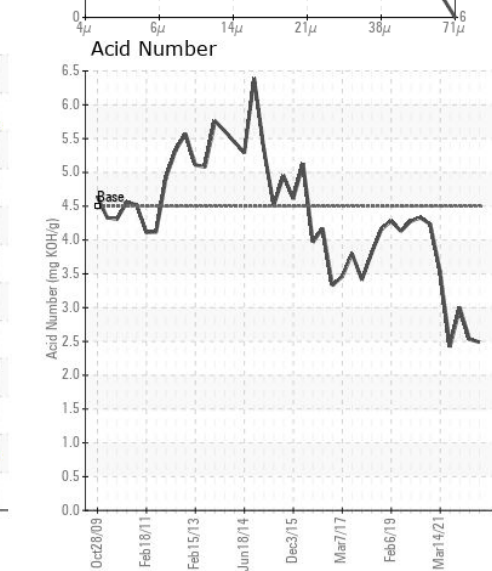
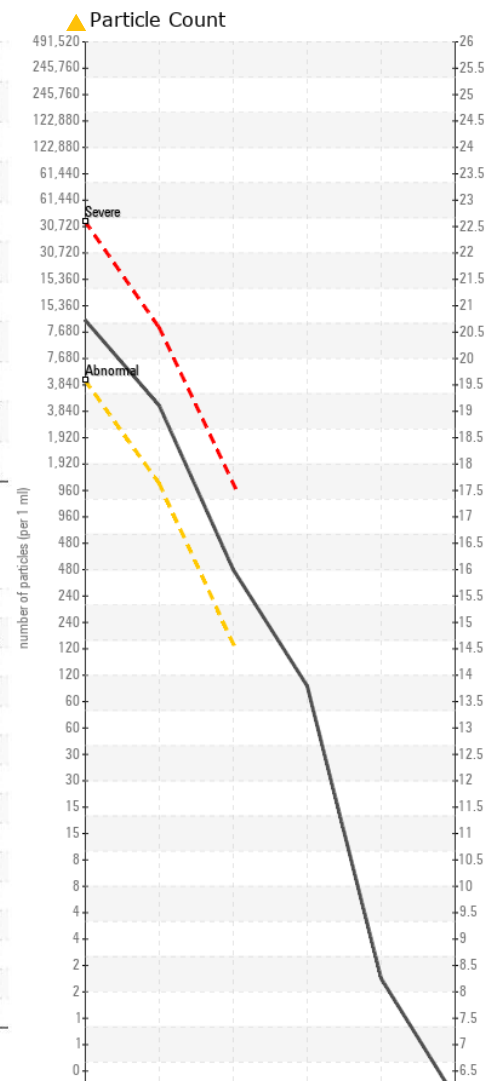
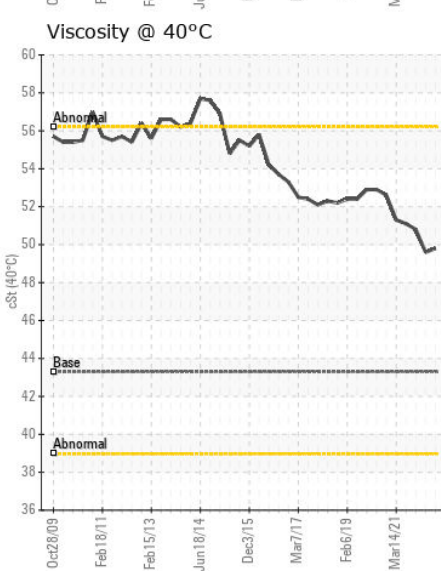
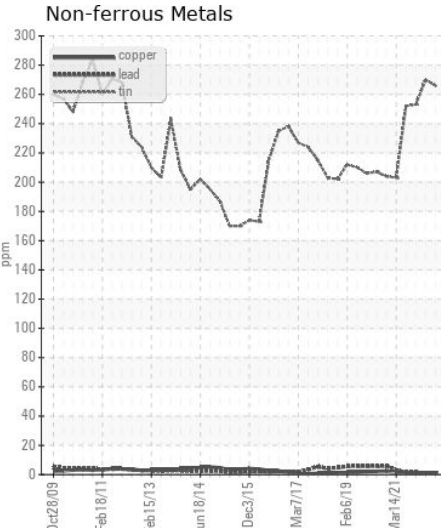
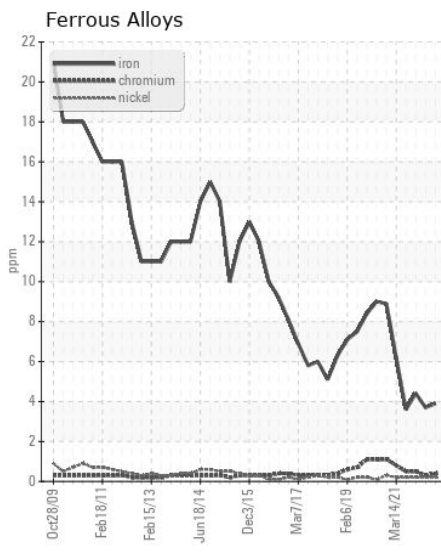
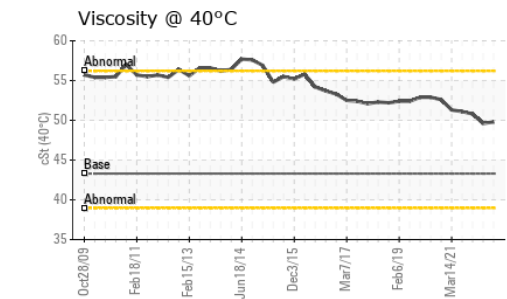
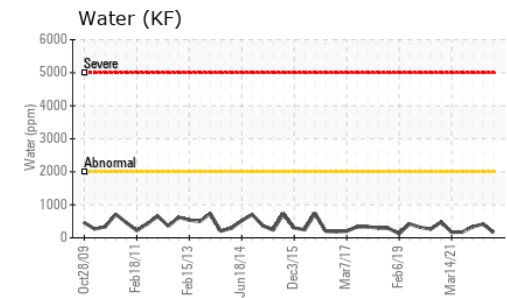
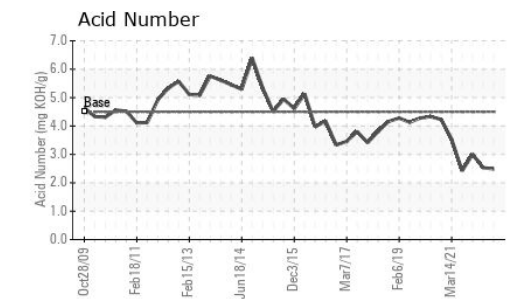
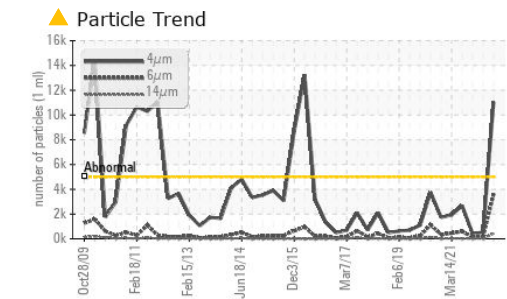
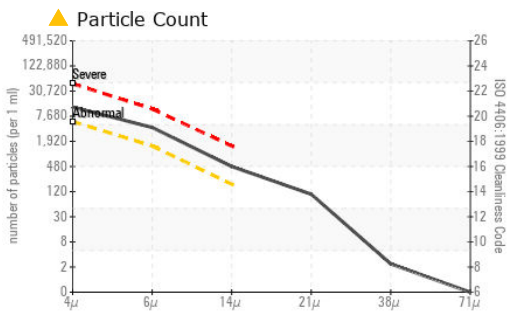
Le AN est acceptable pour ce fluide. l'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0543664</b>	WC0863116	WC0743543
Sample Date		Client Info		<b>29 Feb 2024</b>	20 Oct 2023	08 May 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
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>	NORMAL	NORMAL

Iron	ppm	ASTM D5185(m)	>20	<b>4</b>	4	4
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	2
Copper	ppm	ASTM D5185(m)	>20	<b>1</b>	1	1
Tin	ppm	ASTM D5185(m)	>20	<b>266</b>	270	253
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

Silicon	ppm	ASTM D5185(m)	>15	<b>2</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	0
Water	%	ASTM D6304*	>0.2	<b>0.016</b>	0.041	0.032
ppm Water	ppm	ASTM D6304*	>2000	<b>163</b>	418.0	329.2
Particles >4µm		ASTM D7647	>5000	<b>▲ 11029</b>	530	419
Particles >6µm		ASTM D7647	>1300	<b>▲ 3607</b>	144	129
Particles >14µm		ASTM D7647	>160	<b>▲ 422</b>	15	20
Particles >21µm		ASTM D7647	>40	<b>▲ 92</b>	4	7
Particles >38µm		ASTM D7647	>10	<b>2</b>	1	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 21/19/16</b>	16/14/11	16/14/11
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</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

Sodium	ppm	ASTM D5185(m)		<b>4</b>	4	4
Boron	ppm	ASTM D5185(m)	0	<b>0</b>	2	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Calcium	ppm	ASTM D5185(m)	0	<b>1</b>	<1	0
Phosphorus	ppm	ASTM D5185(m)	200	<b>106</b>	107	120
Zinc	ppm	ASTM D5185(m)	0	<b>11</b>	9	11
Sulfur	ppm	ASTM D5185(m)		<b>642</b>	650	686
Acid Number (AN)	mg KOH/g	ASTM D974*	4.5	<b>2.49</b>	2.53	3.00
Visc @ 40°C	cSt	ASTM D7279(m)	43.3	<b>49.8</b>	49.6	50.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0543664 **Received** : 01 Mar 2024  
**Lab Number** : 02619268 **Tested** : 04 Mar 2024  
**Unique Number** : 5736378 **Diagnosed** : 04 Mar 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF )

**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.