



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**Funicular**  
 Machine Id  
**Rescue Winch**  
 Component  
**Hydraulic System**  
 Fluid  
**TUXTON PREMIUM HYDRAULIC AW 22 (10 GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0868693</b>	WC0627555	WC0423155
Sample Date		Client Info		<b>03 Jan 2024</b>	10 Mar 2022	02 Oct 2020
Machine Age	hrs	Client Info		<b>0</b>	15	10
Oil Age	hrs	Client Info		<b>0</b>	15	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Filter Changed		Client Info		<b>None</b>	Not Changd	N/A
Sample Status				<b>ABNORMAL</b>	ATTENTION	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	<1
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>75	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
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

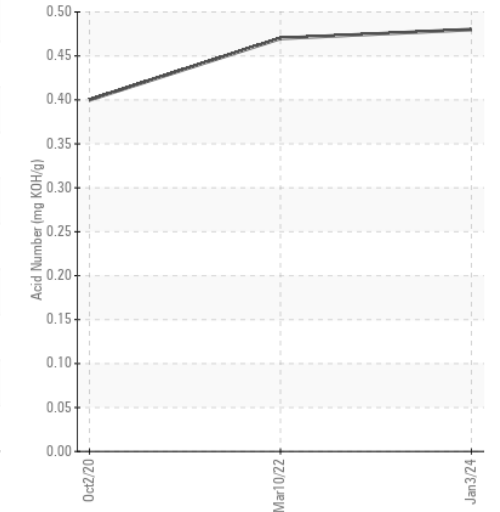
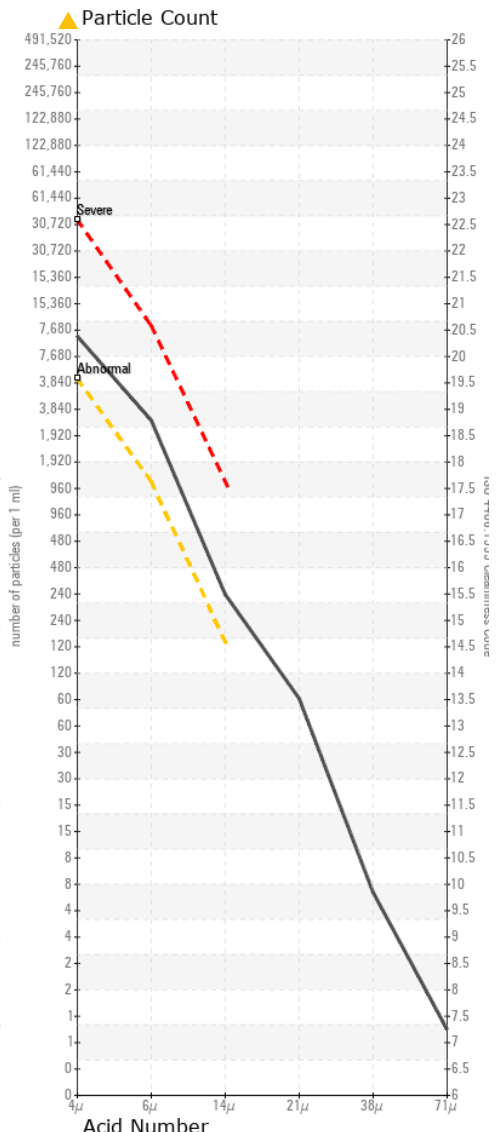
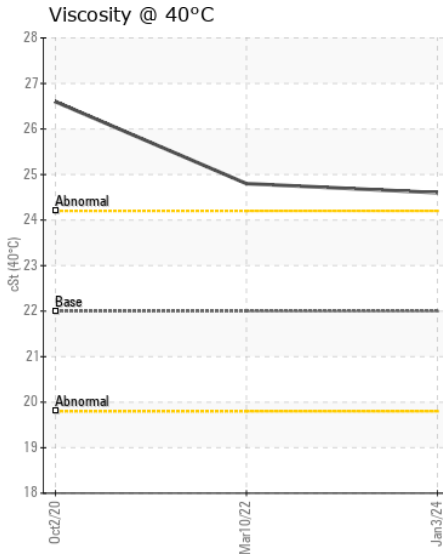
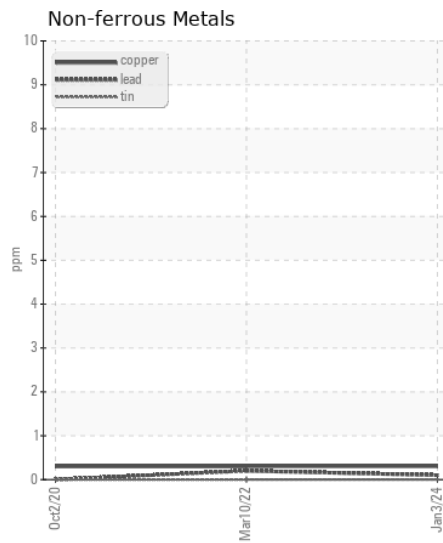
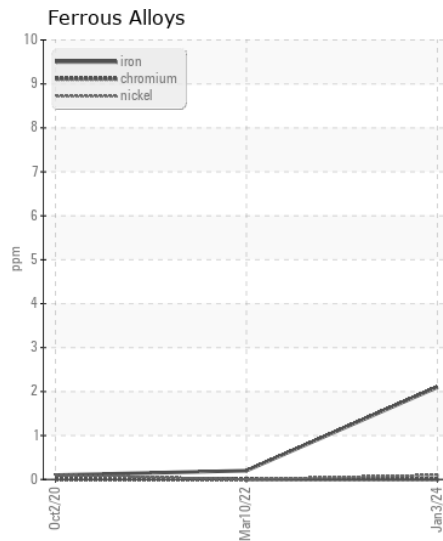
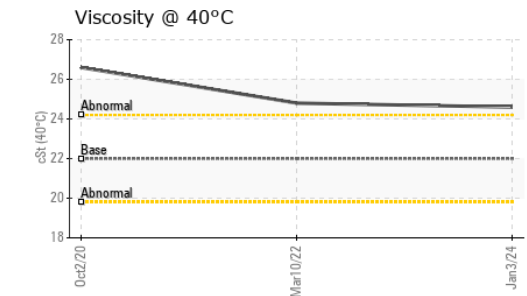
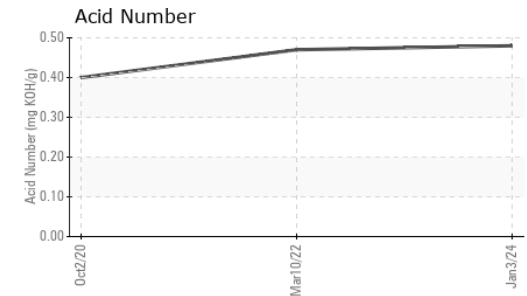
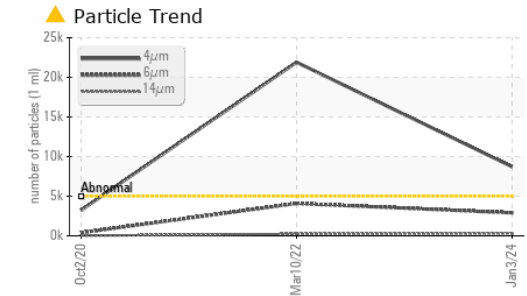
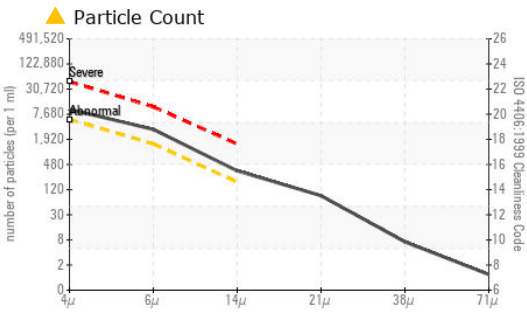
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	<1	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 8718</b>	▲ 21902	3235
Particles >6µm		ASTM D7647	>1300	<b>▲ 2899</b>	4084	389
Particles >14µm		ASTM D7647	>160	<b>▲ 297</b>	237	14
Particles >21µm		ASTM D7647	>40	<b>▲ 76</b>	47	6
Particles >38µm		ASTM D7647	>10	<b>6</b>	0	2
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 20/19/15</b>	▲ 22/19/15	19/16/11
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*	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	2
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)		<b>48</b>	42	79
Phosphorus	ppm	ASTM D5185(m)		<b>271</b>	322	235
Zinc	ppm	ASTM D5185(m)		<b>340</b>	381	281
Sulfur	ppm	ASTM D5185(m)		<b>780</b>	849	638
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.48</b>	0.47	0.40
Visc @ 40°C	cSt	ASTM D7279(m)	22.0	<b>24.6</b>	24.8	26.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0868693 **Received** : 11 Jan 2024  
**Lab Number** : 02608185 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 5709271 **Diagnostician** : Wes Davis  
**Test Package** : MAR 2 ( Additional Tests: TAN Man )

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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.