



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**MAIN WINCH**  
 Component  
**Main Winch**  
 Fluid  
**SHELL TELLUS T46 (--- LTR)**

## RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0955556</b>	WC0722090	---
Sample Date		Client Info		<b>28 Jun 2024</b>	27 Apr 2023	---
Machine Age	yrs	Client Info		<b>0</b>	0	---
Oil Age	yrs	Client Info		<b>0</b>	0	---
Filter Age	yrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184*		<b>0</b>	0	---
Iron	ppm	ASTM D5185(m)	>30	<b>11</b>	11	---
Chromium	ppm	ASTM D5185(m)	>2	<b>1</b>	1	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185(m)	>70	<b>0</b>	<1	---
Copper	ppm	ASTM D5185(m)	>65	<b>7</b>	7	---
Tin	ppm	ASTM D5185(m)	>9	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

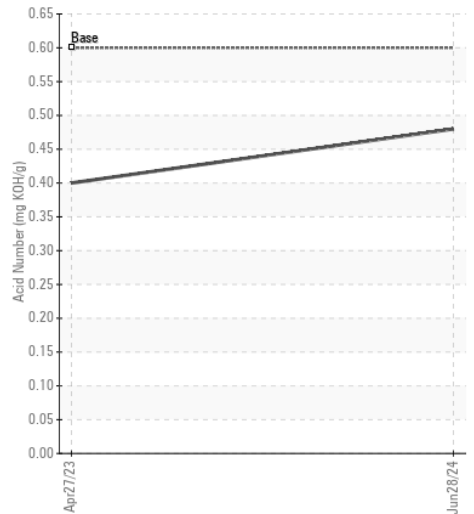
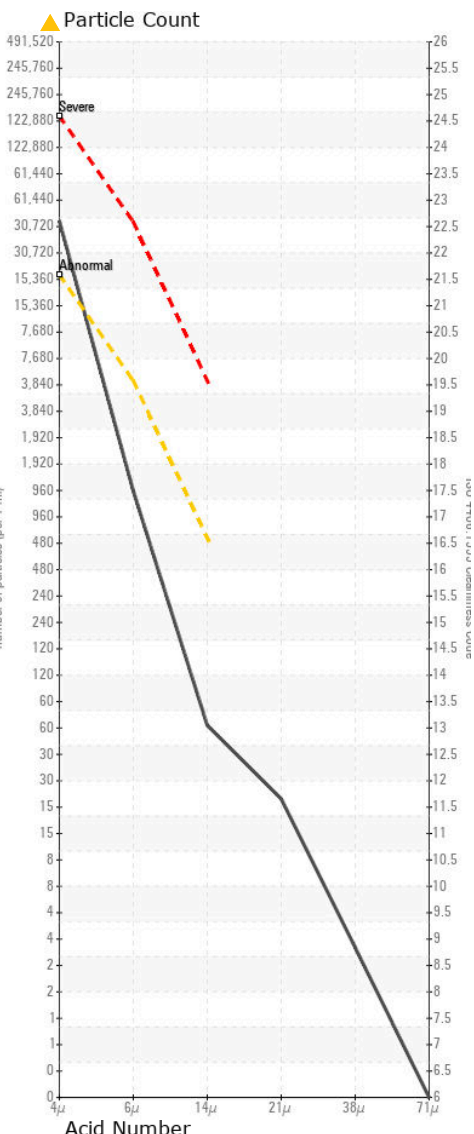
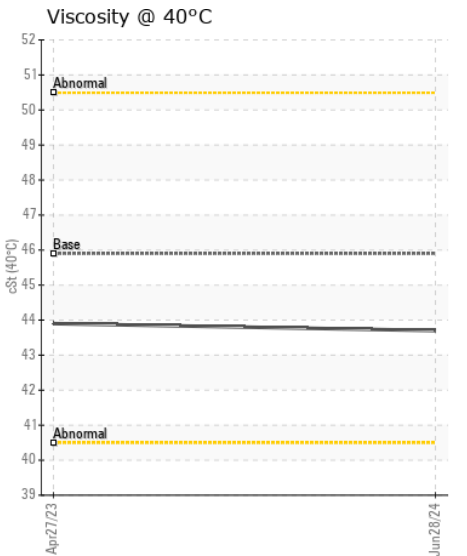
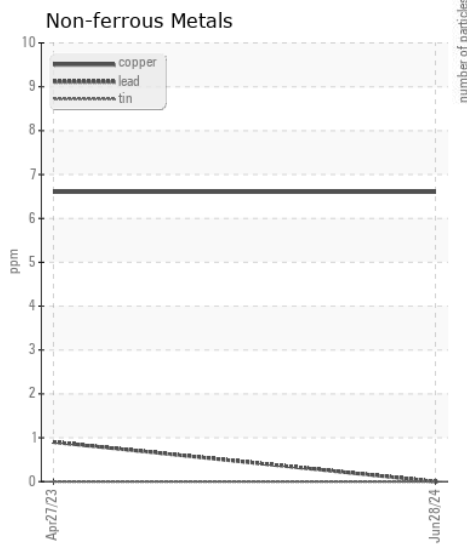
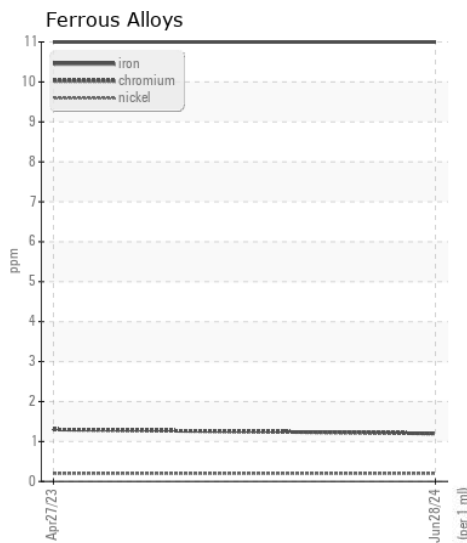
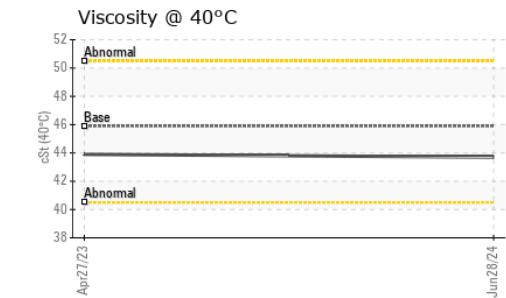
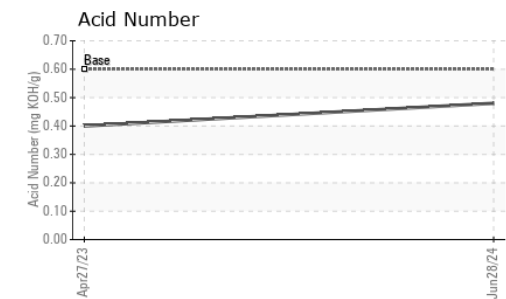
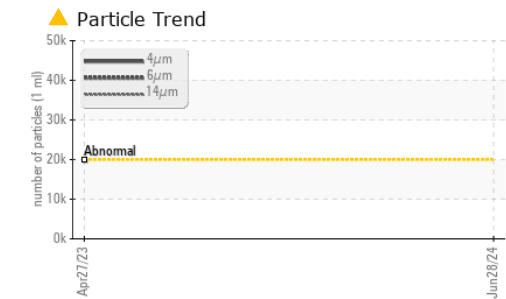
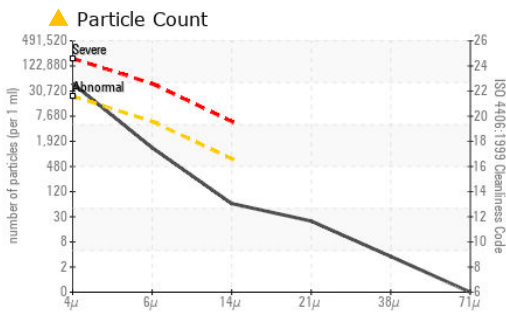
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>1</b>	2	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>20000	<b>▲ 40545</b>	---	---
Particles >6µm		ASTM D7647	>5000	<b>1183</b>	---	---
Particles >14µm		ASTM D7647	>640	<b>55</b>	---	---
Particles >21µm		ASTM D7647	>160	<b>21</b>	---	---
Particles >38µm		ASTM D7647	>40	<b>3</b>	---	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>▲ 23/17/13</b>	---	---
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	---

## 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	---
Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	0	<b>26</b>	28	---
Calcium	ppm	ASTM D5185(m)	48	<b>36</b>	35	---
Phosphorus	ppm	ASTM D5185(m)	337	<b>290</b>	329	---
Zinc	ppm	ASTM D5185(m)	426	<b>331</b>	331	---
Sulfur	ppm	ASTM D5185(m)	2280	<b>5433</b>	5705	---
Acid Number (AN)	mg KOH/g	ASTM D974*	.6	<b>0.48</b>	0.40	---
Visc @ 40°C	cSt	ASTM D7279(m)	45.9	<b>43.7</b>	43.9	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0955556 **Received** : 04 Jul 2024  
**Lab Number** : 02645653 **Tested** : 09 Jul 2024  
**Unique Number** : 5803192 **Diagnosed** : 09 Jul 2024 - Kevin Marson  
**Test Package** : MAR 2 ( Additional Tests: PQ, PrtCount, 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.