



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**MTU 161 FULTON**  
 Component  
**Diesel Engine**  
 Fluid  
**TOTAL FINA RUBIA TIR 7900 15W40 (--- LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0888772</b>	WC0665518	---
Sample Date		Client Info		<b>05 Mar 2024</b>	17 Oct 2022	---
Machine Age	hrs	Client Info		<b>151</b>	97	---
Oil Age	hrs	Client Info		<b>55</b>	0	---
Filter Age	hrs	Client Info		<b>55</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	5	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	3	---
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	2	---
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	20	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

## CONTAMINATION

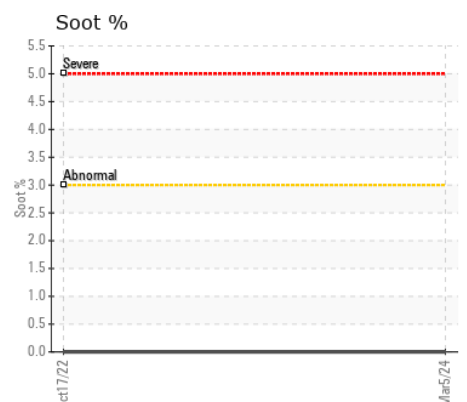
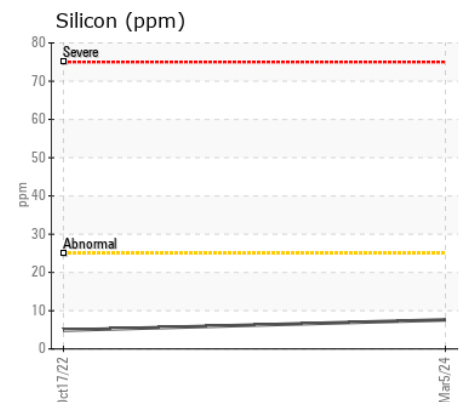
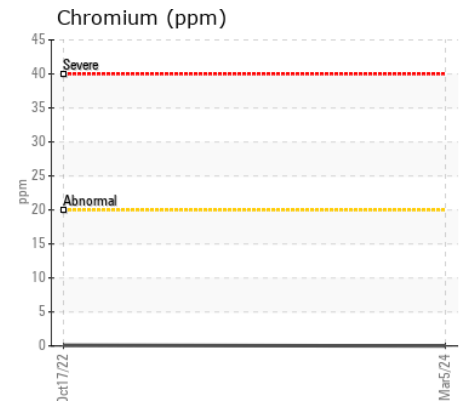
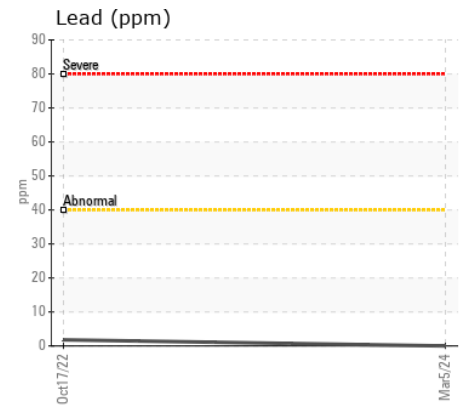
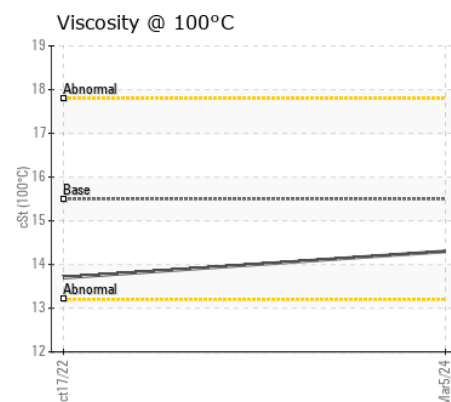
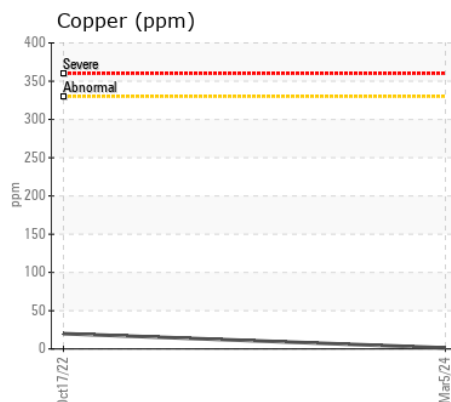
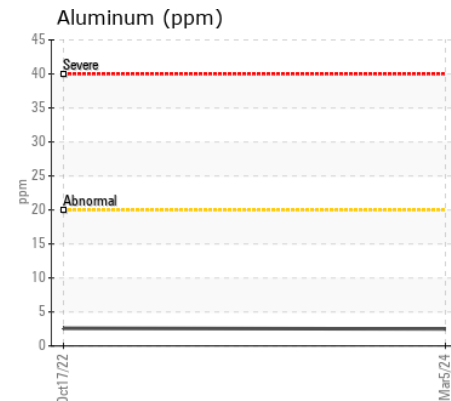
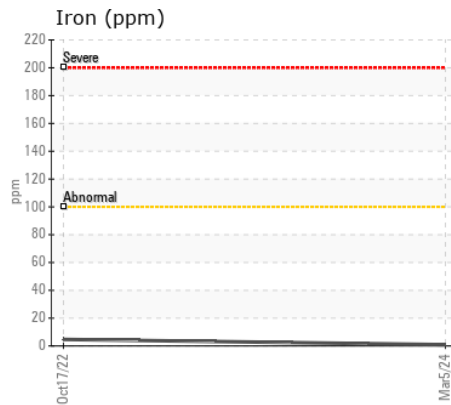
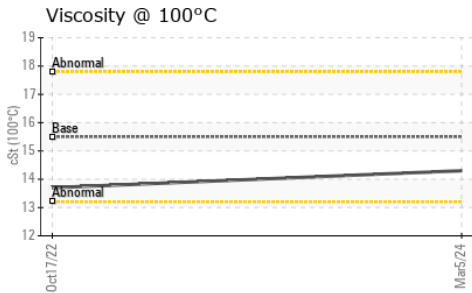
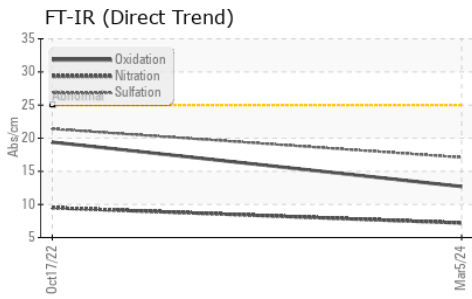
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>8</b>	5	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.2</b>	9.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.1</b>	21.4	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	4	---
Boron	ppm	ASTM D5185(m)		<b>69</b>	11	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)		<b>85</b>	8	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	1	---
Magnesium	ppm	ASTM D5185(m)		<b>12</b>	17	---
Calcium	ppm	ASTM D5185(m)	3290	<b>2218</b>	2429	---
Phosphorus	ppm	ASTM D5185(m)	1200	<b>1032</b>	758	---
Zinc	ppm	ASTM D5185(m)	1400	<b>1145</b>	797	---
Sulfur	ppm	ASTM D5185(m)	4000	<b>3176</b>	2064	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.7</b>	19.4	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>14.3</b>	13.7	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0888772 **Received** : 15 Apr 2024  
**Lab Number** : 02628734 **Tested** : 16 Apr 2024  
**Unique Number** : 5761866 **Diagnosed** : 16 Apr 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**GenWorx Power Systems Inc.**  
 785 Westney Road, Unit 4  
 Ajax, ON  
 CA L1S 7G1  
 Contact: J Curtis  
 jcurtis@genworx.ca

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.