



# OIL ANALYSIS REPORT

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

Area  
**SUNLIFE [33548]**  
 Machine Id  
**MTU WARRIOR A (S/N 95030500208)**  
 Component  
**Diesel Engine**  
 Fluid  
**APRIL SUPERFLO UNIVERSAL ENGINE OIL SP 15W40 (300 LTR)**

## RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. this testkit includes BN to determine the suitability of the oil for continued use.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0841626</b>	WC0817536	WC0521225
Sample Date		Client Info		<b>09 Apr 2024</b>	08 May 2023	19 Nov 2022
Machine Age	hrs	Client Info		<b>159</b>	149	142
Oil Age	hrs	Client Info		<b>0</b>	6	0
Filter Age	hrs	Client Info		<b>0</b>	6	0
Oil Changed		Client Info		<b>N/A</b>	Not Chngd	Changed
Filter Changed		Client Info		<b>N/A</b>	Not Chngd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

Component wear rates appear to be normal (unconfirmed).

Iron	ppm	ASTM D5185(m)	>100	<b>2</b>	<1	1
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

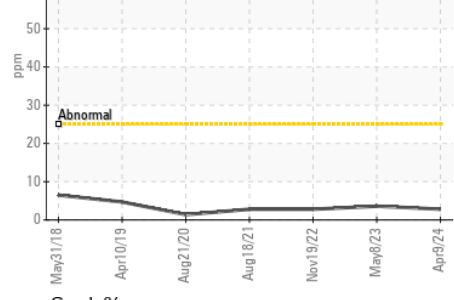
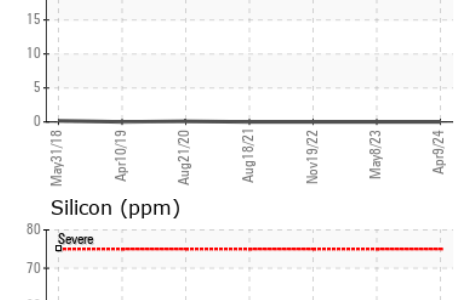
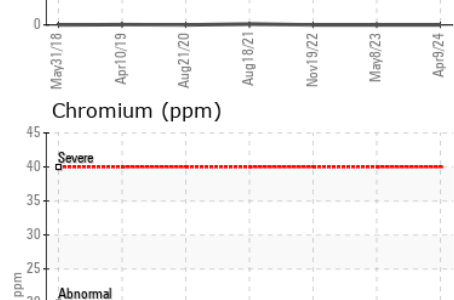
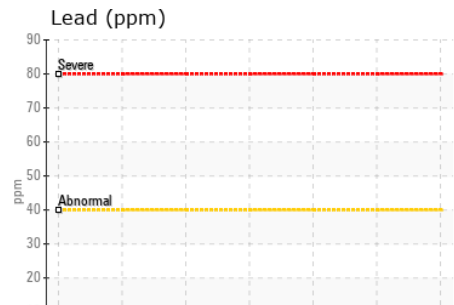
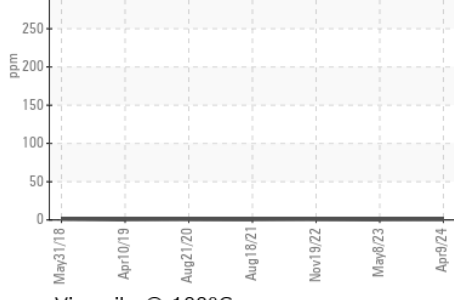
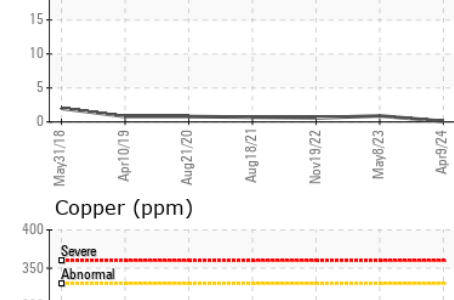
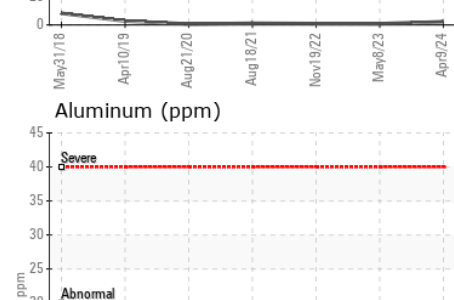
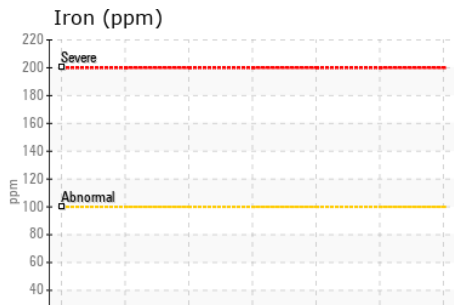
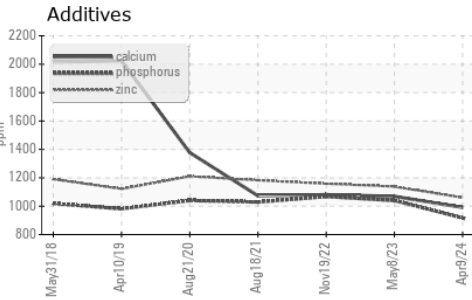
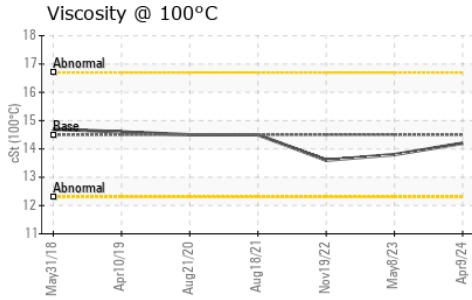
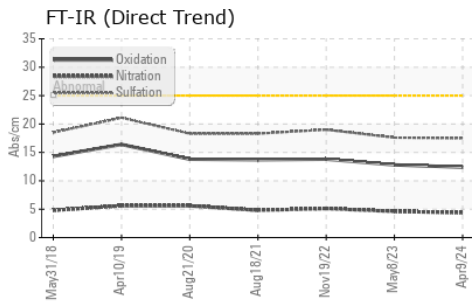
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.4</b>	4.6	5.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.5</b>	17.6	19.0
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service (unconfirmed).

Sodium	ppm	ASTM D5185(m)		<b>1</b>	1	2
Boron	ppm	ASTM D5185(m)		<b>13</b>	8	13
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>55</b>	58	57
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>877</b>	923	923
Calcium	ppm	ASTM D5185(m)		<b>991</b>	1069	1081
Phosphorus	ppm	ASTM D5185(m)		<b>917</b>	1040	1068
Zinc	ppm	ASTM D5185(m)		<b>1060</b>	1138	1158
Sulfur	ppm	ASTM D5185(m)		<b>2409</b>	2627	2709
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.4</b>	12.8	13.8
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	<b>14.2</b>	13.8	13.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0841626  
**Lab Number** : 02628067  
**Unique Number** : 5761199  
**Test Package** : MOB 1  
**Received** : 11 Apr 2024  
**Tested** : 11 Apr 2024  
**Diagnosed** : 11 Apr 2024 - Kevin Marson

**SOMMERS GENERATOR SALES LTD.**  
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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.