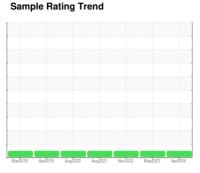


OIL ANALYSIS REPORT

SUNLIFE [33548] MTU WARRIOR A (S/N 95030500208)

Diesel Engine

APRIL SUPERFLO UNIVERSAL ENGINE OIL SP 15W40 (300 LTR)





DIAGNOSIS

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.

Wear

Component wear rates appear to be normal (unconfirmed).

Contamination

There is no indication of any contamination in the oil.

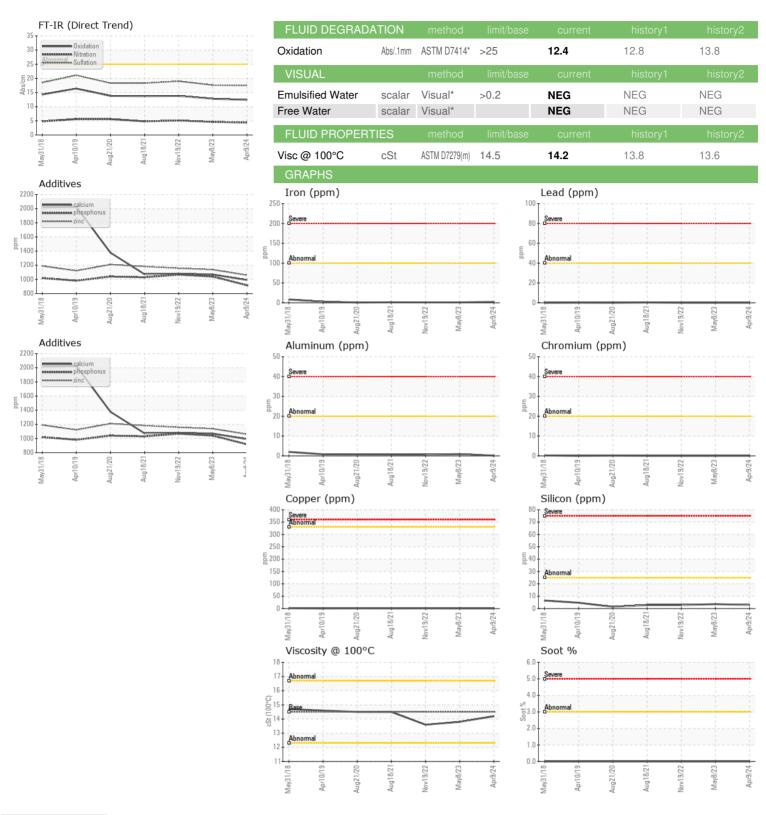
Fluid Condition

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).

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0841626	WC0817536	WC0521225
Sample Date		Client Info		09 Apr 2024	08 May 2023	19 Nov 2022
Machine Age	hrs	Client Info		159	149	142
Oil Age	hrs	Client Info		0	6	0
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	2	<1	1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		13	8	13
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		55	58	57
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		877	923	923
Calcium	ppm	ASTM D5185(m)		991	1069	1081
Phosphorus	ppm	ASTM D5185(m)		917	1040	1068
Zinc	ppm	ASTM D5185(m)		1060	1138	1158
Sulfur	ppm	ASTM D5185(m)		2409	2627	2709
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	4	3
Sodium	ppm	ASTM D5185(m)		1	1	2
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.4	4.6	5.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.5	17.6	19.0



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02628067 Unique Number : 5761199

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0841626

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Received **Tested** Test Package : MOB 1

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Diagnosed

: 11 Apr 2024 : 11 Apr 2024

: 11 Apr 2024 - Kevin Marson

SOMMERS GENERATOR SALES LTD. 70 PACKHAM AVENUE STRATFORD, ON CA N4Z 0A6

Contact: Pat Devereaux pat.devereaux@sommersgen.com

T: (519)655-2396 F: (519)655-6881