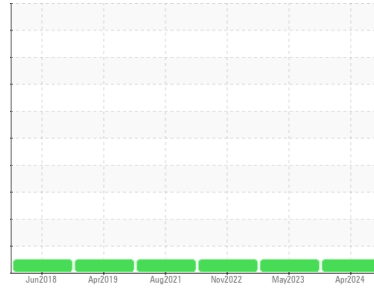




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

SUNLIFE [33549]

Machine Id

MTU WARRIOR B (S/N 95030500207)

Component

Diesel Engine

Fluid

APRIL SUPERFLO GOLD K 15W40 (300 LTR)

DIAGNOSIS

Recommendation

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

Metal levels are typical for a new component breaking in. Component wear rates appear to be normal (unconfirmed).

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0767426	WC0817537	WC0521226
Sample Date	Client Info	09 Apr 2024	08 May 2023	14 Nov 2022
Machine Age	hrs Client Info	150	146	141
Oil Age	hrs Client Info	0	5	0
Oil Changed	Client Info	N/A	Not Changd	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

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	<1
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) 34	15	10	14
Barium	ppm ASTM D5185(m) 0	0	0	0
Molybdenum	ppm ASTM D5185(m) 70	57	59	59
Manganese	ppm ASTM D5185(m)	0	<1	<1
Magnesium	ppm ASTM D5185(m) 640	895	913	905
Calcium	ppm ASTM D5185(m) 1410	1003	1066	1086
Phosphorus	ppm ASTM D5185(m) 1020	936	1035	1092
Zinc	ppm ASTM D5185(m) 1170	1079	1131	1172
Sulfur	ppm ASTM D5185(m) 2930	2441	2618	2724
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

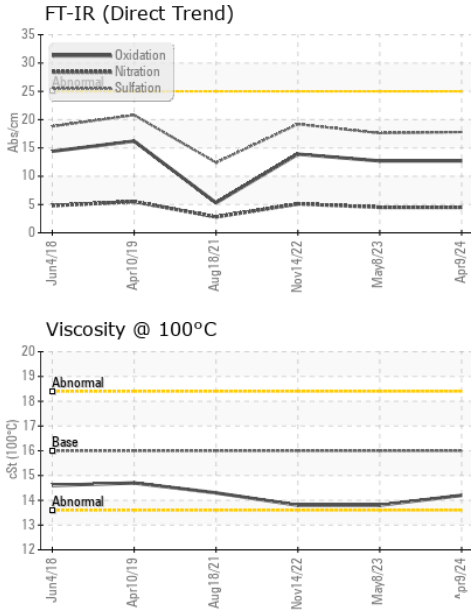
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	3	4	3
Sodium	ppm ASTM D5185(m)	1	1	2
Potassium	ppm ASTM D5185(m) >20	0	0	0

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0	0	0
Nitration	Abs/cm ASTM D7624* >20	4.5	4.5	5.1
Sulfation	Abs./1mm ASTM D7415* >30	17.8	17.6	19.2



OIL ANALYSIS REPORT

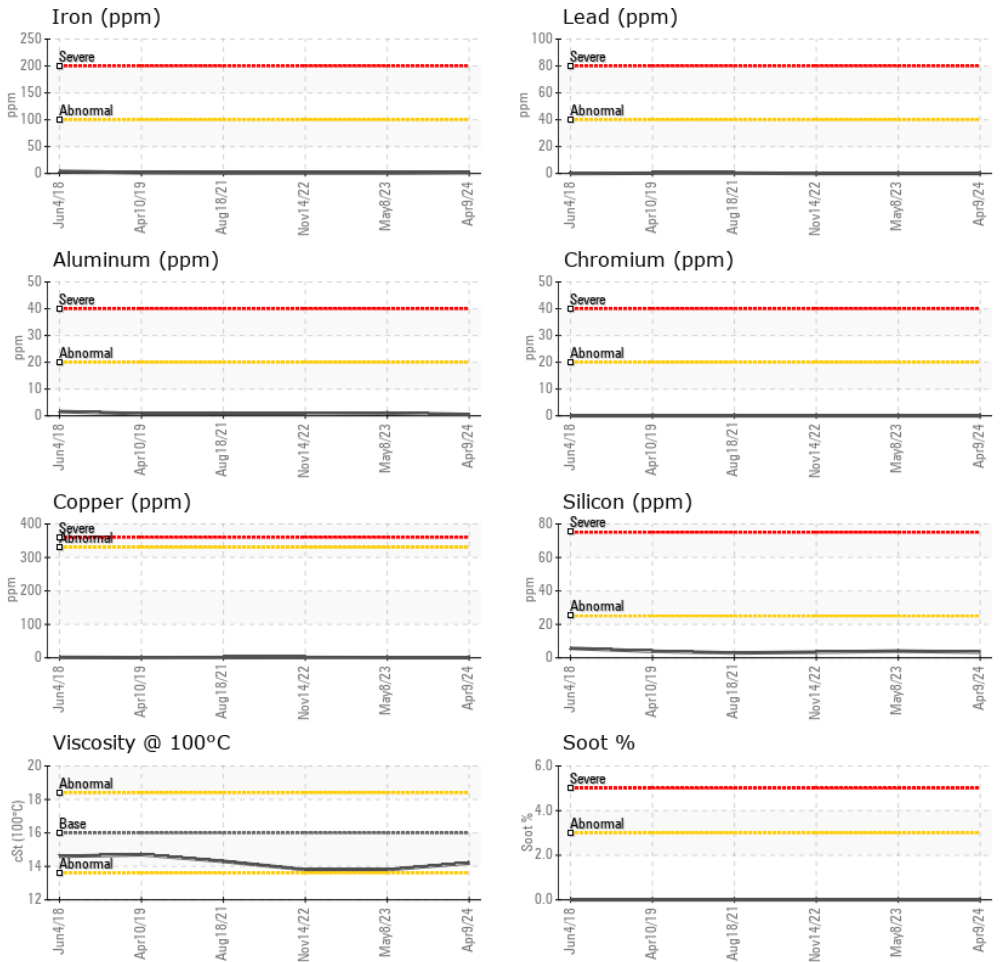


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	12.7	12.7	13.9

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	16.0	14.2	13.8	13.8

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0767426
Lab Number : 02628068
Unique Number : 5761200
Test Package : MOB 1 (Additional Tests: Visual)

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

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.