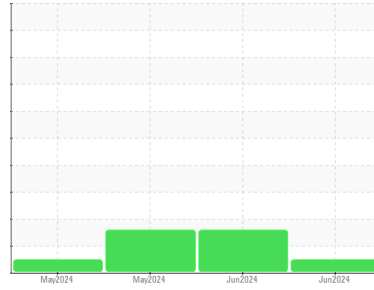




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
ALGOMA HARVESTER
 Machine Id
GENERATOR #2 (S/N 1050WEL20)
 Component
2 Auxiliary Engine
 Fluid
INFINEUM OIL 4000 (760 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Suspect origin of noted wear metals (nickel and/or vanadium and/or aluminum) is from heavy fuel usage. All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0952798	WC0952807	WC0952805
Sample Date	Client Info			09 Jun 2024	02 Jun 2024	12 May 2024
Machine Age	hrs	Client Info		25329	25166	29812
Oil Age	hrs	Client Info		572	409	55
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	ATTENTION

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>4.0		<1.0	<1.0	<1.0
Water	WC Method	>0.1		NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>35	34	26	12
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	23	17	6
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	7	6	4
Lead	ppm	ASTM D5185(m)	>7	<1	0	0
Copper	ppm	ASTM D5185(m)	>65	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		45	31	10
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

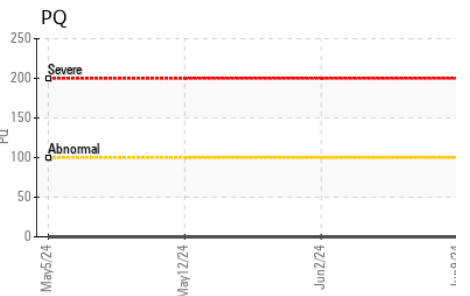
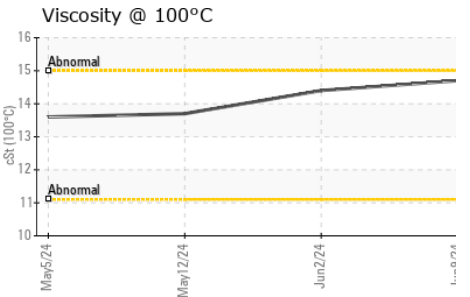
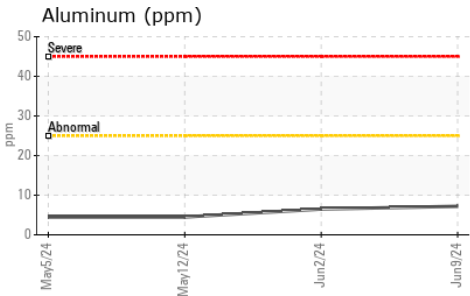
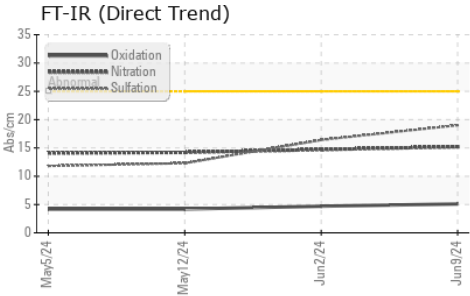
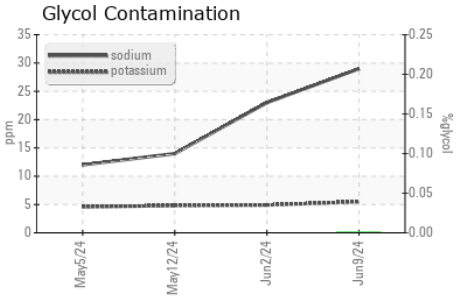
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		1	2	1
Barium	ppm	ASTM D5185(m)		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		2	2	<1
Manganese	ppm	ASTM D5185(m)		2	2	2
Magnesium	ppm	ASTM D5185(m)		42	43	44
Calcium	ppm	ASTM D5185(m)		12699	12592	12974
Phosphorus	ppm	ASTM D5185(m)		272	268	271
Zinc	ppm	ASTM D5185(m)		285	284	290
Sulfur	ppm	ASTM D5185(m)		3218	2632	1512
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	21	21	20
Sodium	ppm	ASTM D5185(m)		29	23	14
Potassium	ppm	ASTM D5185(m)	>20	6	5	5
Glycol	%	ASTM D7922*		0.0	NEG	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0.3	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	15.2	14.7	14.2
Sulfation	Abs./1mm	ASTM D7415*	>30	19.0	16.4	12.3



OIL ANALYSIS REPORT

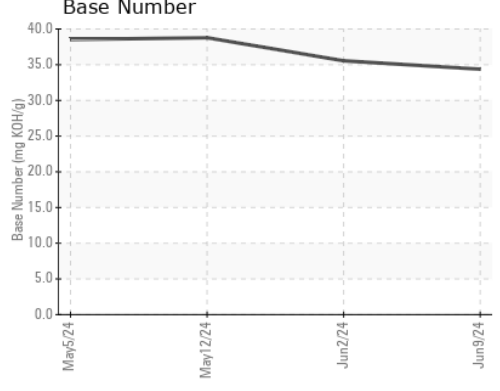
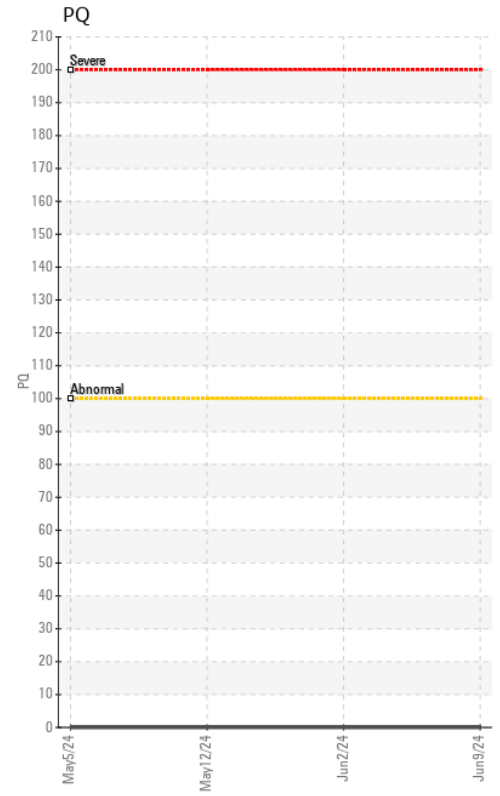
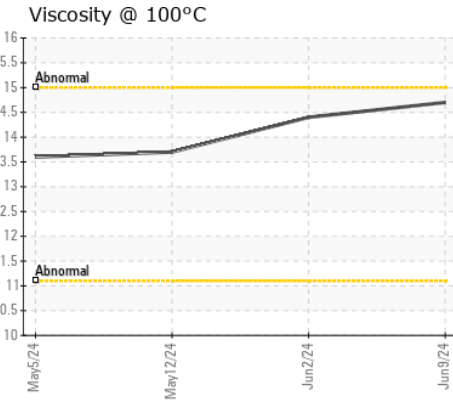
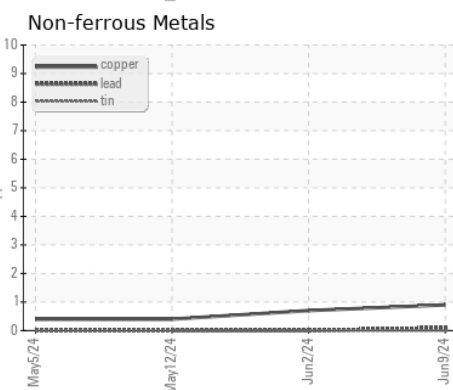
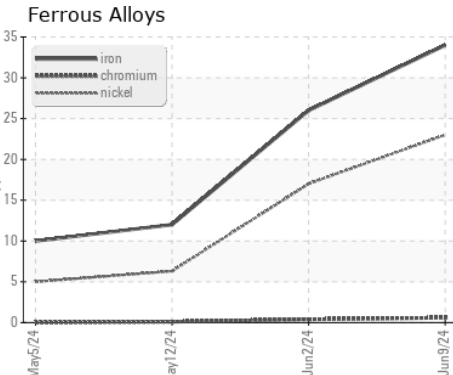


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	5.1	4.7	4.2
Base Number (BN)	mg KOH/g	ASTM D2896*		34.37	35.55	38.78

VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.1	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)		14.7	14.4	13.7

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0952798
Lab Number : 02647988
Unique Number : 5813540
Test Package : MAR 2 (Additional Tests: Glycol, PQ)
Received : 15 Jul 2024
Tested : 16 Jul 2024
Diagnosed : 16 Jul 2024 - Kevin Marson

Sustainable Maritime Solutions Ltd.,
 8 The Island,, Wraysbury
 Staines, ZZ
 GB TW19 5AS
 Contact: Donald Gregory
 donald.gregory3@gmail.com
 T: (440)788-4113690
 F:

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.