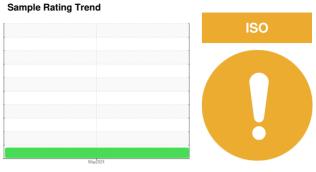


OIL ANALYSIS REPORT

ALGOMA HARVESTER GENERATOR #2 (S/N 1050WEL20)

New (Unused) Oil

INFINEUM OIL 4000 (760 LTR)



Recommendation

This is the baseline readout on this new (unused) oil. The fluid is suitable for service. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: New oils are not generally filtered or guaranteed to a certain cleanliness code. We advise that you verify the target cleanliness code for your application and recommend the use of a portable filter cart to fill any system with a target code below the ISO cleanliness code of this product.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

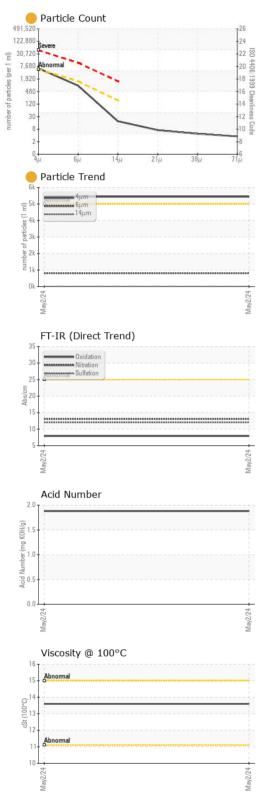
Fluid Condition

The condition of the oil is suitable for service.

Client Info							
Client Info	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0	Sample Number		Client Info		WC0952806		
Machine Age hrs Client Info 0	Sample Date		Client Info		02 May 2024		
Cilichanged Cilient Info N/A	Machine Age	hrs	Client Info				
CONTAMINATION method limit/base current history1 history2	Oil Age	hrs	Client Info		0		
CONTAMINATION method limit/base current history1 history2 Water WC Method NEG WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185(m) 4 Chromium ppm ASTM D5185(m) 0 Chromium ppm ASTM D5185(m) 0 Citickel ppm ASTM D5185(m) 0 Silver ppm ASTM D5185(m) 0 Aluminum ppm ASTM D5185(m) 0 Jead ppm ASTM D5185(m) 0 Capper ppm ASTM D5185(m) 0 Candium ppm ASTM D5185(m) 0 Candium ppm ASTM D5185(m) 0	Oil Changed		Client Info		N/A		
WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185(m) 4 Chromium ppm ASTM D5185(m) 0 Nickel ppm ASTM D5185(m) 0 Fitanium ppm ASTM D5185(m) 0 Aluminum ppm ASTM D5185(m) 3 Aluminum ppm ASTM D5185(m) 0 Lead ppm ASTM D5185(m) 0 Lead ppm ASTM D5185(m) 0 Copper ppm ASTM D5185(m) 0 Actinony ppm ASTM D5185(m) 0 Ariandium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 <th>Sample Status</th> <th></th> <th></th> <th></th> <th>ATTENTION</th> <th></th> <th></th>	Sample Status				ATTENTION		
WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185(m) 4 Chromium ppm ASTM D5185(m) 0 Olickel ppm ASTM D5185(m) 0 District ppm ASTM D5185(m) 0 Aluminum ppm ASTM D5185(m) 0 Aluminum ppm ASTM D5185(m) 0 Aluminum ppm ASTM D5185(m) 0 Lead ppm ASTM D5185(m) 0 Capper ppm ASTM D5185(m) 0 Cin ppm ASTM D5185(m) 0 Candium ppm ASTM D5185(m) 0 Boron ppm ASTM D5185(m) 0	CONTAMINATIO	N	method	limit/base	current	history1	history2
ASTM D5185(m) ASTM D5185(m	Water		WC Method		NEG		
Description	WEAR METALS		method	limit/base	current	history1	history2
Description	Iron	ppm	ASTM D5185(m)		4		
ASTM D5185(m)	Chromium		. ,				
Description	Nickel		. ,				
Saliver	Titanium						
Aluminum	Silver		(/		-		
December December	Aluminum						
Copper	Lead		, ,				
Antimony	Copper		. ,				
Antimony	Tin		. ,		0		
Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 2 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 2 Manganese ppm ASTM D5185(m) 2 Magnesium ppm ASTM D5185(m) 46 Calcium ppm ASTM D5185(m) 270 Phosphorus ppm ASTM D5185(m) 310 Phosphorus ppm ASTM D5185(m) 750 Sulfur ppm ASTM D5185(m) <1	Antimony		. ,		0		
Decyllium	Vanadium		, ,		0		
ADDITIVES	Beryllium		. ,				
Soron ppm ASTM D5185(m) 2	Cadmium		1 /		0		
Soron ppm ASTM D5185(m) 2	ADDITIVES		method	limit/base	current	history1	history2
Sarium	Boron	ppm	ASTM D5185(m)		2		
Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) 2 Magnesium ppm ASTM D5185(m) 46 Calcium ppm ASTM D5185(m) 15140 Phosphorus ppm ASTM D5185(m) 270 Zinc ppm ASTM D5185(m) 310 Sulfur ppm ASTM D5185(m) 750 Lithium ppm ASTM D5185(m) <1	Barium		` ′				
Manganese ppm ASTM D5185(m) 2 Magnesium ppm ASTM D5185(m) 46 Calcium ppm ASTM D5185(m) 15140 Phosphorus ppm ASTM D5185(m) 270 Zinc ppm ASTM D5185(m) 310 Sulfur ppm ASTM D5185(m) 750 Lithium ppm ASTM D5185(m) <1			(/				
Magnesium ppm ASTM D5185(m) 46 Calcium ppm ASTM D5185(m) 15140 Phosphorus ppm ASTM D5185(m) 270 Zinc ppm ASTM D5185(m) 310 Sulfur ppm ASTM D5185(m) 750 Lithium ppm ASTM D5185(m) <1	•						
Calcium ppm ASTM D5185(m) 15140 Phosphorus ppm ASTM D5185(m) 270 Zinc ppm ASTM D5185(m) 310 Sulfur ppm ASTM D5185(m) 750 Lithium ppm ASTM D5185(m) <1	-		1 /				
Phosphorus ppm ASTM D5185(m) 270 Zinc ppm ASTM D5185(m) 310 Sulfur ppm ASTM D5185(m) 750 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) 5 Sodium ppm ASTM D5185(m) >20 5 Potassium ppm ASTM D5185(m) >20 5 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* 13.1	Calcium		. ,				
Zinc ppm ASTM D5185(m) 310 Sulfur ppm ASTM D5185(m) 750					270		
Sulfur ppm ASTM D5185(m) 750 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) 14 Sodium ppm ASTM D5185(m) 5 Potassium ppm ASTM D5185(m) >20 5 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* 13.1	Zinc						
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) 14 Sodium ppm ASTM D5185(m) 5 Potassium ppm ASTM D5185(m) >20 5 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* 13.1	Sulfur						
Solition ppm ASTM D5185(m) 14	Lithium		ASTM D5185(m)				
Sodium ppm ASTM D5185(m) 5 Potassium ppm ASTM D5185(m) >20 5 INFRA-RED method limit/base current history1 history2 Goot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* 13.1	CONTAMINANTS	;	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185(m) 5 Potassium ppm ASTM D5185(m) >20 5 INFRA-RED method limit/base current history1 history2 Goot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* 13.1	Silicon	ppm	ASTM D5185(m)		14		
Potassium ppm ASTM D5185(m) >20 5 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* 13.1	Sodium						
Soot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* 13.1	Potassium			>20			
Nitration Abs/cm ASTM D7624* 13.1	INFRA-RED		method	limit/base	current	history1	history2
Nitration Abs/cm ASTM D7624* 13.1	Soot %	%	ASTM D7844*		0		
	Nitration		ASTM D7624*				
· - · · · · · · · · · · · · · · · · · ·	Sulfation	Abs/.1mm	ASTM D7415*		12.0		



OIL ANALYSIS REPORT



FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	5441		
Particles >6µm		ASTM D7647	>1300	809		
Particles >14µm		ASTM D7647	>160	16		
Particles >21µm		ASTM D7647	>40	6		
Particles >38µm		ASTM D7647	>10	4		
Particles >71µm		ASTM D7647	>3	3		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>20/17/11</u>		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		7.9		
Acid Number (AN)	mg KOH/g	ASTM D974*		1.88		
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	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*		NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		115		
Visc @ 100°C	cSt	ASTM D7279(m)		13.6		
Viscosity Index (VI)	Scale	ASTM D2270*		115		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02647971 Unique Number : 5813523

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

Validity of results and interpretation are based on the sample and information as supplied.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Sustainable Maritime Solutions Ltd., : WC0952806 Received : 15 Jul 2024

Tested : 17 Jul 2024 Diagnosed

: 17 Jul 2024 - Kevin Marson Test Package : MAR 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, TAN Man, VI)

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

GB TW19 5AS Contact: Donald Gregory donald.gregory3@gmail.com T: (440)788-4113690

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