

OIL ANALYSIS REPORT

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

2 Auxiliary Engine Fluid INFINEUM OIL 4000 (760 LTR)

DIAGNOSIS

Recommendation

We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

📥 Wear

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Suspect origin of noted wear metals (nickel and/or vanadium and/or aluminum) is from heavy fuel usage.

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. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is suitable for further service.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0952796	WC0952808	WC0952798
Sample Date		Client Info		28 Jun 2024	16 Jun 2024	09 Jun 2024
Machine Age	hrs	Client Info		25673	25505	25329
Oil Age	hrs	Client Info		916	748	572
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
				-		
CONTAMINATION	1	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
		mothod	limit/baco	ourropt	history1	history?
		methou	iiiiii/base	Current	history	Thistoryz
PQ		ASTM D8184*		0		0
Iron	ppm	ASTM D5185(m)	>35	<u> </u>		34
Chromium	ppm	ASTM D5185(m)	>4	<1		<1
Nickel	ppm	ASTM D5185(m)	>2	33		23
Titanium	ppm	ASTM D5185(m)	>2	1		<1
Silver	ppm	ASTM D5185(m)	>2	0		0
Aluminum	ppm	ASTM D5185(m)	>25	8		7
Lead	ppm	ASTM D5185(m)	>7	<1		<1
Copper	ppm	ASTM D5185(m)	>65	1		<1
Tin	ppm	ASTM D5185(m)	>4	0		0
Antimony	ppm	ASTM D5185(m)		0		0
Vanadium	ppm	ASTM D5185(m)		64		45
Beryllium	ppm	ASTM D5185(m)		0		0
Cadmium	ppm	ASTM D5185(m)		0		0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		1		1
Barium	ppm	ASTM D5185(m)		1		<1
Molybdenum	ppm	ASTM D5185(m)		4		2
Manganese	ppm	ASTM D5185(m)		2		2
Magnesium	ppm	ASTM D5185(m)		42		42
Calcium	ppm	ASTM D5185(m)		12620		12699
Phosphorus	ppm	ASTM D5185(m)		264		272
Zinc	ppm	ASTM D5185(m)		285		285
Sulfur	ppm	ASTM D5185(m)		4135		3218
Lithium	ppm	ASTM D5185(m)		<1		<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	nnm	ASTM D5185(m)	>20	22		21
Sodium	nom	ASTM D5185(m)	220	36		29
Potassium	nom	ASTM D5185(m)	>20	5		6
Glycol	%	ASTM D7922*	220	0.0	NEG	0.0
	/0	. OTHER DIVEL				0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0.4	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	15.7	15.2	15.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.4	21.4	19.0



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Contact/Location: Donald Gregory - SUSSTA Page 2 of 2