

OIL ANALYSIS REPORT

NORMAL



HEATEC OIL HEATER (S/N 98178A)

Heat Transfer Fluid

ERGON HYGOLD L500 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

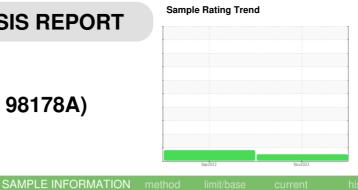
All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the fluid.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

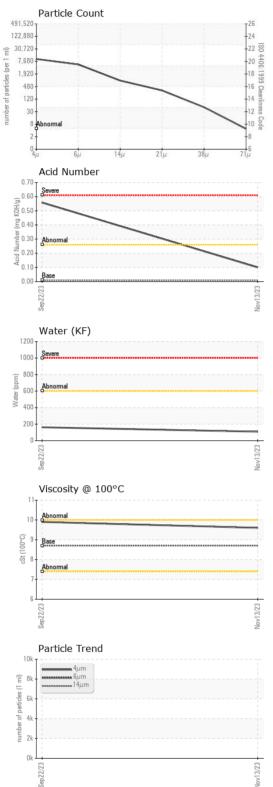


Sample Number		Client Info		TO10002939	TO10002559	
Sample Date		Client Info		13 Nov 2023	22 Sep 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	2	4	
Chromium	ppm	ASTM D5185m	>21	0	0	
Nickel	ppm	ASTM D5185m	>21	0	0	
Titanium	ppm	ASTM D5185m	>21	0	0	
Silver	ppm	ASTM D5185m	>21	0	0	
Aluminum	ppm	ASTM D5185m	>21	0	<1	
Lead	ppm	ASTM D5185m	>21	0	0	
Copper	ppm	ASTM D5185m	>21	<1	0	
Tin	ppm	ASTM D5185m	>21	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		0	2	
Calcium	ppm	ASTM D5185m		0	0	
Phosphorus	ppm	ASTM D5185m		0	1	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m	432	261	385	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	
Sodium	ppm	ASTM D5185m	>21	0	0	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water	%	ASTM D6304	>0.0601	0.010	0.016	
ppm Water	ppm	ASTM D6304	>601	108.2	162.1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		8822		
Particles >6µm		ASTM D7647	>10240000	4806		
Particles >14µm		ASTM D7647	>10240000	818		
Particles >21µm		ASTM D7647	>2560000	275		
Particles >38μm		ASTM D7647	>640000	43		
Particles >71µm		ASTM D7647	>160000	4		
Oil Cleanliness		ISO 4406 (c)	>/30/30	20/19/17		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.01	0.10	0.558	

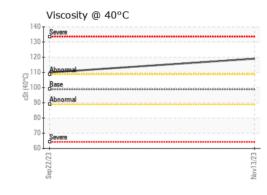
Contact/Location: MIKE WHITE - ERGMUL



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	▲ MODER	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.0601	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	98.9	119	110	
Visc @ 100°C	cSt	ASTM D445	8.7	9.6	9.9	
Viscosity Index (VI)	Scale	ASTM D2270	35	31	55	
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						no image
Bottom						no image
CDADUC						







Certificate L2367

Laboratory Sample No. Lab Number

: 06012387 Unique Number : 10751531

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TO10002939 Received : 20 Nov 2023 Diagnosed : 22 Nov 2023 Diagnostician : Don Baldridge

Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) **ERGON - BIRMINGPORT**

7890 BIRMINGPORT RD MULGA, AL US 35118

Contact: MIKE WHITE Mike.White@ergon.com

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