

OIL ANALYSIS REPORT

Sample Rating Trend



AMERICAN 14MM/BTU HOT OIL HEATER (S/N 1575-A19)

Heat Transfer Fluid

PARATHERM HE (4000 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

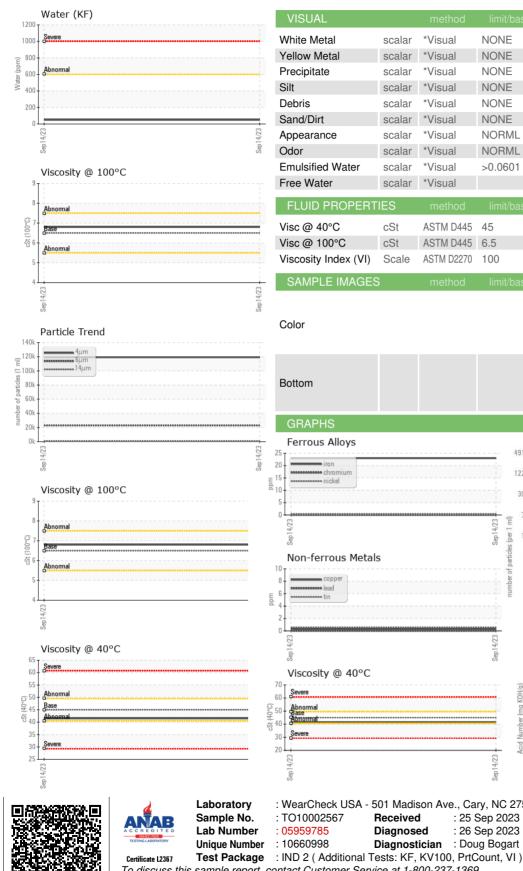
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10002567		
Sample Date		Client Info		14 Sep 2023		
Machine Age	yrs	Client Info		4		
Oil Age	yrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	23		
Chromium	ppm	ASTM D5185m	>21	0		
Nickel	ppm	ASTM D5185m	>21	<1		
Titanium	ppm	ASTM D5185m	>21	0		
Silver	ppm	ASTM D5185m	>21	0		
Aluminum	ppm	ASTM D5185m	>21	0		
Lead	ppm	ASTM D5185m	>21	0		
Copper	ppm	ASTM D5185m		<1		
Tin	ppm	ASTM D5185m	>21	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		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	0	1		
Magnesium	ppm	ASTM D5185m	0	0		
Calcium	ppm	ASTM D5185m	0	23		
Phosphorus	ppm	ASTM D5185m	0	3		
Zinc	ppm	ASTM D5185m	0	2		
Sulfur	ppm	ASTM D5185m	0	0		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m	>21	0		
Potassium	ppm	ASTM D5185m	>20	1		
Water	%	ASTM D6304	>0.0601	0.005		
ppm Water	ppm	ASTM D6304	>601	50.1		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		119171		
Particles >6µm		ASTM D7647	>10240000	22962		
Particles >14µm		ASTM D7647	>10240000	442		
Particles >21µm		ASTM D7647	>2560000	49		
Particles >38µm		ASTM D7647	>640000	0		
Particles >71µm		ASTM D7647	>160000	0		
Oil Cleanliness		ISO 4406 (c)	>/30/30	24/22/16		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.004	0.19		



OIL ANALYSIS REPORT



NONE *Visual NONE scalar *Visual NONE NONE scalar NONE scalar *Visual NONE scalar *Visual NONE NONE *Visual NONE NONE scalar NONE NONE scalar *Visual scalar NORML *Visual NORML *Visual NORML NORML scalar scalar *Visual >0.0601 NEG scalar *Visual NEG cSt ASTM D445 45 41.5 cSt ASTM D445 6.5 6.8 120 Scale ASTM D2270 100 no image no image no image no image Particle Count 491.520 122.880 30,720 20 23 7.680 Sep14/23 per 1 1.920 480 120 31 Sep14/23 214 Acid Number 0.80 (mg KOH/g) 0.60 (mg b 0.40 특 0.20 0.00 PC 4/23 Sep 1. Sep1 Sep **ERGON - BUTTE** : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Sep 2023 119873 RICK JONES WAY Diagnosed : 26 Sep 2023 BUTTE, MT US 59701 Diagnostician : Doug Bogart

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 specificings are based on the simple acceptance decision rule (ICGM 106-2

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: F:

Contact: WILLIAM DAVIS

William.Davis@ergon.com