

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

AMERICAN HEATING AHE-1200 HOT OIL HEATER (S/N 521-A01)

Heat Transfer Fluid

CHEVRON HEAT TRANSFER OIL 46 (--- 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.

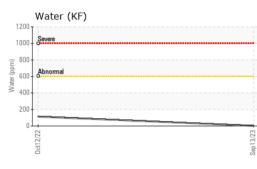
Fluid Condition

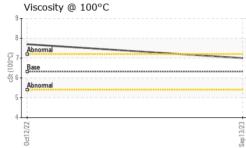
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

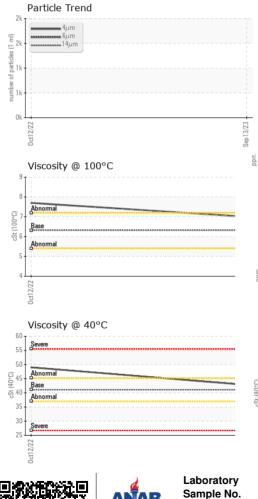
			002022	Sep2U23		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10002568	TO10000617	
Sample Date		Client Info		13 Sep 2023	12 Oct 2022	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	75	583	
Chromium	ppm	ASTM D5185m	>21	0	<1	
Nickel	ppm	ASTM D5185m	>21	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>21	0	0	
Aluminum	ppm	ASTM D5185m		3	2	
Lead	ppm	ASTM D5185m	>21	0	0	
Copper	ppm	ASTM D5185m		<1	2	
Tin	ppm	ASTM D5185m	>21	<1	<1	
Vanadium	ppm	ASTM D5185m	2 - 1	<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	10	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		2	10	
Magnesium	ppm	ASTM D5185m		<1	<1	
Calcium	ppm	ASTM D5185m		4	21	
Phosphorus	ppm	ASTM D5185m		1	9	
Zinc	ppm	ASTM D5185m		0	2	
Sulfur	ppm	ASTM D5185m		18	83	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	8	
Sodium	ppm	ASTM D5185m	>21	3	17	
Potassium	ppm	ASTM D5185m	>20	1	0	
i otassium	ppiii		~20		0	
Water	%	ASTM D6304		0.001	0.011	
Water	% ppm	ASTM D6304	>0.0601	0.001	0.011	
Water ppm Water	% ppm	ASTM D6304 ASTM D6304	>0.0601 >601	0.001 2.0	0.011 113.4	
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	% ppm	ASTM D6304 ASTM D6304 method	>0.0601 >601 limit/base	0.001 2.0 current	0.011 113.4	 history2
Water ppm Water FLUID CLEANLIN Particles >4µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647	>0.0601 >601 limit/base	0.001 2.0 current 1888	0.011 113.4 history1 	 history2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>0.0601 >601 limit/base >10240000	0.001 2.0 current 1888 1028	0.011 113.4 history1 	 history2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>0.0601 >601 limit/base >10240000 >10240000	0.001 2.0 current 1888 1028 175	0.011 113.4 history1 	 history2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>0.0601 >601 limit/base >10240000 >10240000 >2560000	0.001 2.0 current 1888 1028 175 59	0.011 113.4 history1 	 history2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.0601 >601 limit/base >10240000 >10240000 >2560000 >640000	0.001 2.0 current 1888 1028 175 59 91	0.011 113.4 history1 	 history2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	% ppm ESS	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.0601 >601 limit/base >10240000 >10240000 >2560000 >640000 >160000	0.001 2.0 current 1888 1028 175 59 91 1	0.011 113.4 history1 	 history2

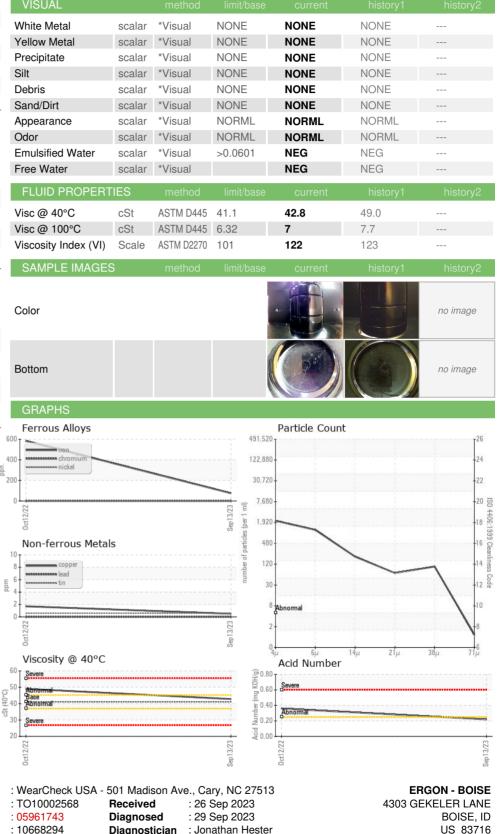


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To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

Certificate L2367

Lab Number

Unique Number

Contact: ANDREW HEIKKILA

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