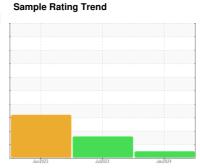


OIL ANALYSIS REPORT

[] WC-9800-0103-5 Chiller #3

Component Chiller

YORK TYPE K (--- GAL)





Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a trace of moisture present in the oil. 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 oil is suitable for further service.

		Ju	2023	Jul2023 Jan20	124	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836509	WC0827381	WC0827396
Sample Date		Client Info		09 Jan 2024	11 Jul 2023	25 Jun 2023
Machine Age	hrs	Client Info		33252	31508	31181
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1110	Client Info		N/A	N/A	N/A
Sample Status		Onorie iriio		NORMAL	MARGINAL	ABNORMAL
WEAR METALS		method	limit/base	_	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	0	<1
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m	72	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	2	<1	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm		>8	0	0	0
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m	7 4	0	<1	0
Cadmium		ASTM D5185m		0	0	0
	ppm		lineit/lenen			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	0	0	<1	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m	5	32	4	<1
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	10	0	0	10
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	13	9	<u> 16</u>
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.03	0.025	△ 0.056	△ 0.053
ppm Water	ppm	ASTM D6304	>300	258	▲ 566.5	<u>▲</u> 530.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	427	352	2112
Particles >6µm		ASTM D7647	>2500	74	28	416
Particles >14μm		ASTM D7647	>320	10	5	10
Particles >21µm		ASTM D7647	>80	4	2	1
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71µm		ASTM D7647	>4	1	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	16/13/10	16/12/10	18/16/10
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
A : 1 N	1/011/	4 OT1 4 D00 45	0.00	0.014	0.044	0.044

Acid Number (AN)

mg KOH/g ASTM D8045 0.03

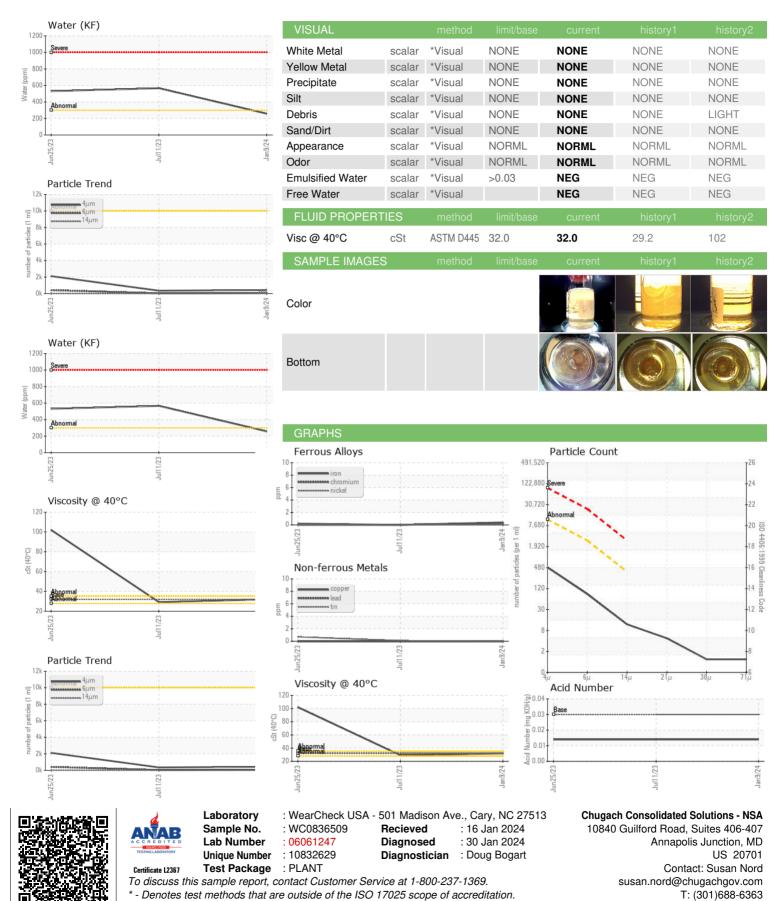
0.014

0.014

0.014



OIL ANALYSIS REPORT



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

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