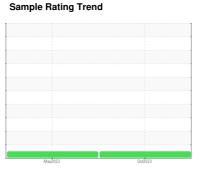


OIL ANALYSIS REPORT

[] WC-9960-0103-5 Chiller #3

Component Chiller

YORK TYPE K (--- GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination 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.

			May2023	0ct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836512	WC0784786	
Sample Date		Client Info		12 Oct 2023	03 May 2023	
Machine Age	hrs	Client Info		0	40197	
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	>8	0	0	
Chromium	ppm	ASTM D5185m	>2	0	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>3	0	6	
Lead	ppm	ASTM D5185m	>2	0	0	
Copper	ppm	ASTM D5185m	>8	0	0	
Tin	ppm	ASTM D5185m	>4	<1	0	
Vanadium	ppm	ASTM D5185m		0	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		1	0	
Phosphorus	ppm	ASTM D5185m		<1	1	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		26	0	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	14	13	
Sodium	ppm	ASTM D5185m		<1	0	
Potassium	ppm	ASTM D5185m	>20	0	2	
Water	%	ASTM D6304	>0.01	0.034	0.044	
ppm Water	ppm	ASTM D6304	>100	348.5	447.4	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	879	889	
Particles >6μm		ASTM D7647	>2500	257	158	
Particles >14μm		ASTM D7647	>320	14	12	
Particles >21μm		ASTM D7647		2	3	
Particles >38μm		ASTM D7647	>20	0	0	
Particles >71μm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/15/11	17/14/11	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.024	0.031	



OIL ANALYSIS REPORT





Certificate L2367

Sample No. Lab Number **Unique Number**

: 05979014 : 10696309

Test Package : PLANT

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 13 Oct 2023 : WC0836512 Received Diagnosed : 16 Oct 2023

Diagnostician : Doug Bogart 10840 Guilford Road, Suites 406-407 Annapolis Junction, MD US 20701

Contact: Susan Nord

susan.nord@chugachgov.com T: (301)688-6363

* - 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)

F: (443)479-5666 Contact/Location: Susan Nord - CHUANN