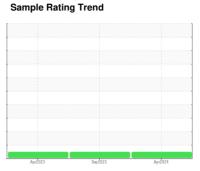


OIL ANALYSIS REPORT



NORMAL



Machine Id [] WC-9800B-0101-5 Chiller #1 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.

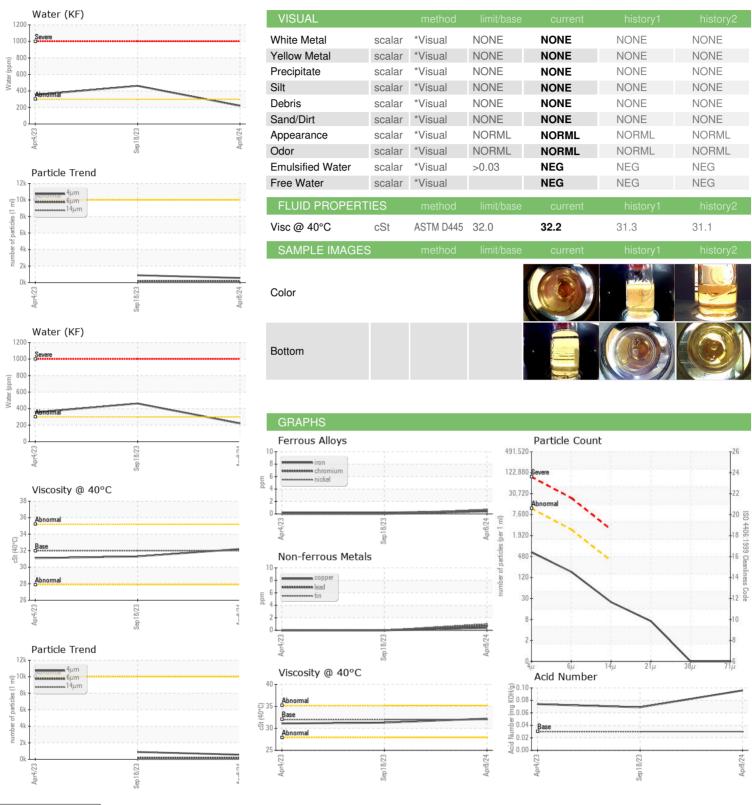
Fluid Condition

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

		Ap	2023	Sep2023 Apr20	24	
SAMPLE INFORM	MATION		lii.t/la.a.a.a		histom d	history.O
	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836583	WC0836535	WC0784765
Sample Date		Client Info		08 Apr 2024	18 Sep 2023	04 Apr 2023
Machine Age	hrs	Client Info		27525	26314	24345
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	<1	<1
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	2	0	0
Lead	ppm	ASTM D5185m	>2	<1	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	0	<1	<1	0
Calcium	ppm	ASTM D5185m	0	4	0	0
Phosphorus	ppm	ASTM D5185m	5	0	2	10
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	10	0	0	11
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	7	6	7
Sodium	ppm	ASTM D5185m		0	<1	<1
Potassium	ppm	ASTM D5185m	>20	1	<1	<1
Water	%	ASTM D6304	>0.03	0.022	0.046	0.035
ppm Water	ppm	ASTM D6304	>300	220	461.9	353.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	560	884	
Particles >6µm		ASTM D7647	>2500	154	174	
Particles >14µm		ASTM D7647	>320	21	14	
Particles >21µm		ASTM D7647	>80	6	5	
Particles >38µm		ASTM D7647	>20	0	1	
Particles >71µm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	16/14/12	17/15/11	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.03	0.096	0.069	0.074



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

: WC0836583 : 06144324 Unique Number : 10969132 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Apr 2024 **Tested**

: 11 Apr 2024 Diagnosed

: 11 Apr 2024 - Doug Bogart

Chugach Consolidated Solutions - NSA 10840 Guilford Road, Suites 406-407 Annapolis Junction, MD US 20701

Contact: Susan Nord susan.nord@chugachgov.com

T: (301)688-6363 F: (443)479-5666

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)