WEAR CONTAMINATION FLUID CONDITION

MARGINAL NORMAL NORMAL

Machine Id

CARRIER DETRIOIT WAYNE JOINT BLDG AUTH CITY COUNTY CHILLER 1 (S/N 2443)

Component

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0507739	WC0507740	
	Sample Date		Client Info		15 Sep 2022	07 Feb 2022	
	Machine Age	hrs	Client Info		4580	3935	
	Oil Age	hrs	Client Info		4580	0	
	Filter Age	hrs	Client Info		4580	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				MARGINAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	> 50	3	4	
The copper level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	0	
	Nickel	ppm	ASTM D5185m	710	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	0	0	
	Lead	ppm	ASTM D5185m		1	2	
	Copper	ppm	ASTM D5185m	>50	<u> </u>	▲ 60	
	Tin	ppm	ASTM D5185m	>10	3	4	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	\15	4	5	
	Potassium	ppm	ASTM D5185m		0	0	
	Water	%	ASTM D6304	>0.01	0.002	0.001	
	ppm Water	ppm	ASTM D6304		17.9	14.1	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	VLITE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m		<1	1	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	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		1	1	
	Phosphorus	ppm	ASTM D5185m		43	56	
	Zinc	ppm	ASTM D5185m		18	23	
			/ 10 1 1VI DO 1 0 0 1 1 1		10	20	
	Sulfur	ppm	ASTM D5185m		939	1211	

Acid Number (AN) mg KOH/g ASTM D974

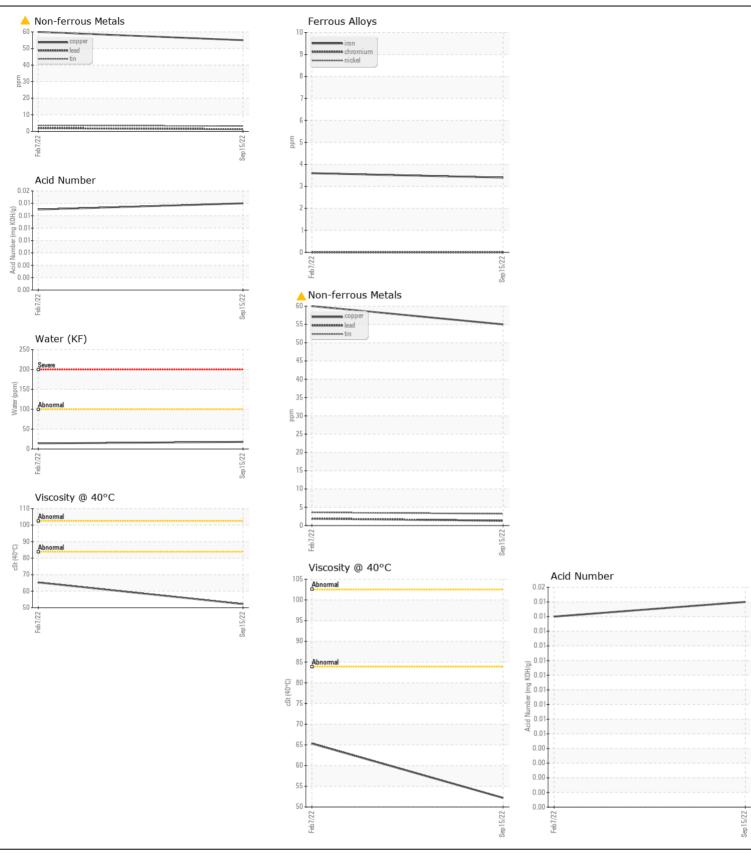
Visc @ 40°C cSt ASTM D445

0.013

65.3

0.014

52.2







Certificate L2367

Laboratory Sample No.

Lab Number : 05646075 Unique Number: 10140614

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0507739

Test Package : IND 2

Received : 20 Sep 2022 **Tested** : 21 Sep 2022 : 21 Sep 2022 - Doug Bogart Diagnosed

3955 PINNACLE COURT SUITE 300 AUBURN HILLS, MI US 48326

DAIKIN APPLIED - AUBURN HILLS

Contact: MICHELLE MANN michelle.mann@daikinapplied.com

Contact/Location: MICHELLE MANN - MCQLIV

T: (248)364-4532 F: (248)364-4530

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)