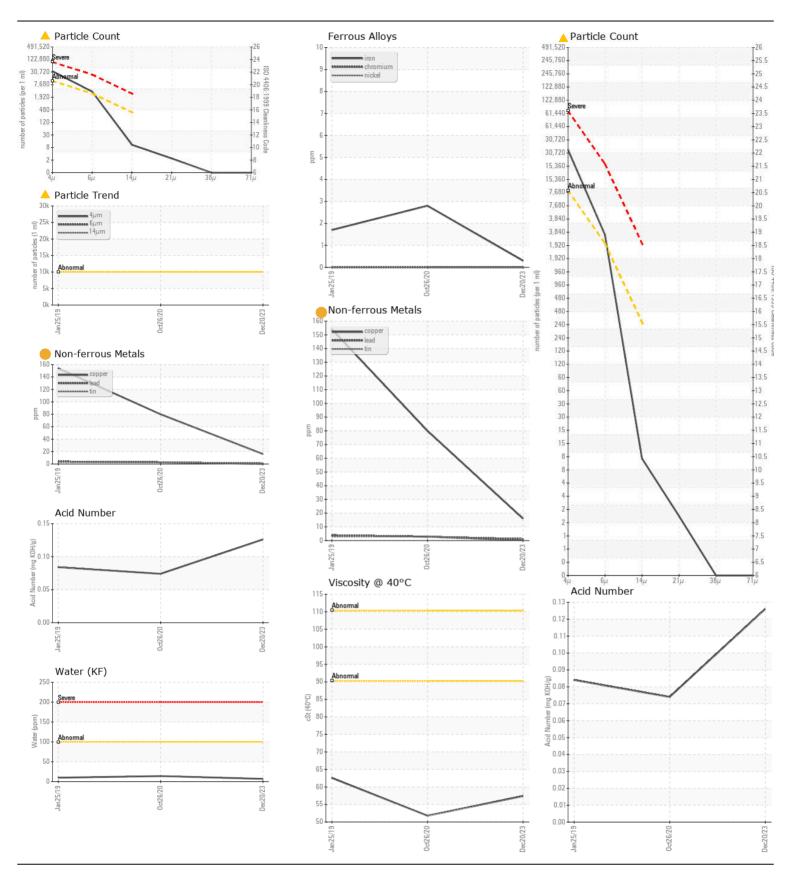
WEAR CONTAMINATION **FLUID CONDITION**

ATTENTION ABNORMAL NORMAL

CARRIER CITY OF NET CHILLER 1 (S/N 2576)

Component Refrigeration Compressor	,						
MINERAL OIL (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. (Customer Sample Comment: Annual test)	Sample Number	OOM	Client Info	LITTIO / COTT	WC0758427	WC0507720	WCI2307144
	Sample Date		Client Info		20 Dec 2023	26 Oct 2020	25 Jan 2019
	Machine Age	hrs	Client Info		5097	3605	0
	Oil Age	hrs	Client Info		5097	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	N/A
	Filter Changed		Client Info		N/A	Changed	N/A
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>8	<1	3	2
	Chromium	ppm	ASTM D5185m	>2	0	0	0
The copper level is marginal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>3	0	0	<1
	Lead	ppm	ASTM D5185m	>2	<1	3	4
	Copper	ppm	ASTM D5185m	>8	16	A 80	<u>▲</u> 154
	Tin	ppm	ASTM D5185m	>4	1	3	3
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	5	6	12
	Potassium	ppm	ASTM D5185m	>20	0	2	0
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water	%	ASTM D6304	>0.01	0.001	0.001	0.001
	ppm Water	ppm	ASTM D6304	>100	7	14.0	10
	Particles >4µm		ASTM D7647	>10000	29050		
	Particles >6µm		ASTM D7647	>2500	3126		
	Particles >14μm		ASTM D7647	>320	9		
	Particles >21µm		ASTM D7647	>80	2		
	Particles >38μm		ASTM D7647	>20	0		
	Particles >71μm		ASTM D7647	>4	0		
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	22/19/10		
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	0	0
The AN level is acceptable for this finish. The condition of the office	Boron	ppm	ASTM D5185m		0	0	<1
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		<1	<1	0
	Calcium	ppm	ASTM D5185m		2	3	0
	Phosphorus	ppm	ASTM D5185m		33	77	90
	Zinc	ppm	ASTM D5185m		0	34	59
	Sulfur	ppm	ASTM D5185m		837	908	1477
	Acid Number (AN)	mg KOH/g	ASTM D974		0.126	0.074	0.084
	Visc @ 40°C	cSt	ASTM D445		57.4	51.8	62.56





Certificate L2367

Laboratory Sample No. Lab Number

: WC0758427 : 06048956 Unique Number: 10809564 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Jan 2024 **Tested** : 03 Jan 2024

: 03 Jan 2024 - Angela Borella Diagnosed

DAIKIN APPLIED - AUBURN HILLS 3955 PINNACLE COURT SUITE 300 AUBURN HILLS, MI

US 48326

Contact: MICHELLE MANN michelle.mann@daikinapplied.com

T: (248)364-4532

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.

F: (248)364-4530 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)