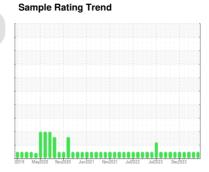


OIL ANALYSIS REPORT

[BATCH 73] **RECYCLED NH3 (S/N 2553147)**

Refrigeration Compressor

USPI ALT-68 SC (110 GAL)





Recommendation

This is a baseline read-out on the submitted sample.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

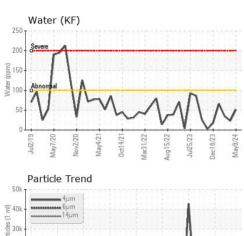
Fluid Condition

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

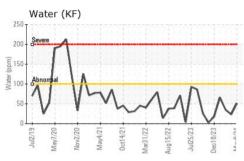
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0011454	USP0006728	USP0006811
Sample Date		Client Info		09 May 2024	08 Apr 2024	13 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	5	15	11
Chromium	ppm	ASTM D5185m	>2	<1	<1	0
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	1	1	0
Lead	ppm	ASTM D5185m	>2	0	1	<1
Copper	ppm	ASTM D5185m	>8	<1	<1	0
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		3	0	1
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	1
Sodium	ppm	ASTM D5185m		0	0	1
Potassium	ppm	ASTM D5185m	>20	1	<1	2
Water	%	ASTM D6304	>0.01	0.005	0.002	0.003
ppm Water	ppm	ASTM D6304	>100	51	23	35
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	199	510	272
Particles >6µm		ASTM D7647	>2500	49	159	48
Particles >14µm		ASTM D7647	>320	3	19	3
Particles >21µm		ASTM D7647	>80	2	6	1
Particles >38µm		ASTM D7647	>20	0	1	0
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	15/13/9	16/14/11	15/13/9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.013	0.014	0.028

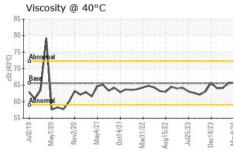


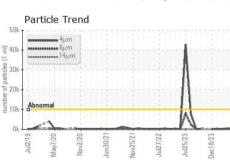
OIL ANALYSIS REPORT



	ım					
14	μm				A	
					A	
					-11	
bnormal					11	
-1					M	
marin instantan	-i-enferen		·	N	C.C.	C.S.
		14μm		14μm	14μm	14µm







VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIFC	ام مالم مما	lineit/lenen		المستعددة المستعددة	histow.0
FLUID PROPER I	TEO	method			history1	history2

. 20.2						
Visc @ 40°C	cSt	ASTM D445	65.6	65.7	65.6	64.1

SAMPLE	IMAGES



Bottom

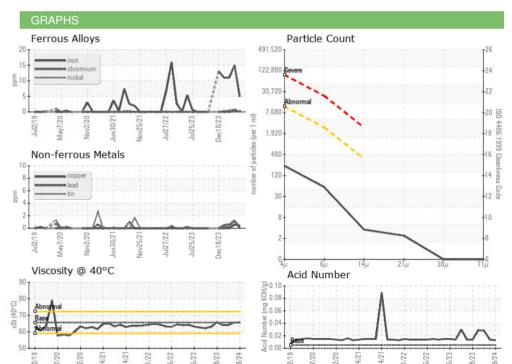
Color















Certificate 12367

Laboratory

Sample No.

Test Package : IND 2

: USP0011454 Lab Number : 06178820 Unique Number : 11030146

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

Diagnosed

: 14 May 2024

: 20 May 2024 : 20 May 2024 - Jonathan Hester **TYSON-ROBARDS-USP** ROBARDS, KY

US Contact: SERVICE MANAGER

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)

Report Id: TYSROB [WUSCAR] 06178820 (Generated: 05/20/2024 15:02:12) Rev: 1

Contact/Location: SERVICE MANAGER - TYSROB

T:

F: