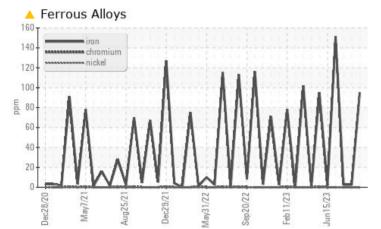


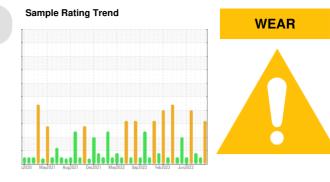
PROBLEM SUMMARY

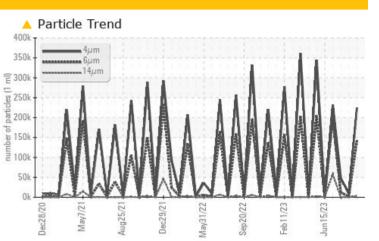
RECYCLE NH3 OIL

Refrigeration Compressor Fluid USPI ALT-68 SC (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

This is a baseline read-out on the submitted sample. TANK $\ensuremath{\mathsf{B}}\xspace$ DIRTY

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>8	<u> </u>	3	3
Particles >6µm		ASTM D7647	>2500	🔺 141257	2234	🔺 11729
Particles >14µm		ASTM D7647	>320	<u> </u>	72	258
Particles >21µm		ASTM D7647	>80	🔺 176	12	29
Oil Cleanliness		ISO 4406 (c)	>/18/15	<u> </u>	20/18/13	▲ 23/21/15
Appearance	scalar	*Visual	NORML	🔺 HAZY	NORML	NORML

Customer Id: TYSBER01 Sample No.: USP0003104 Lab Number: 05998482 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

17 Jul 2023 Diag: Doug Bogart



This is a baseline read-out on the submitted sample. CLEAN TANK A There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



07 Jul 2023 Diag: Doug Bogart



This is a baseline read-out on the submitted sample. TANK A There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



23 Jun 2023 Diag: Doug Bogart

WATER

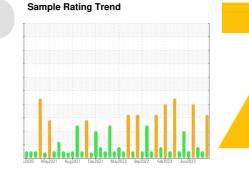


This is a baseline read-out on the submitted sample. TANK A DIRTY SAMPLEThe iron level is abnormal. There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil. Confirmed. The AN level is approaching the top-end of the recommended limit. Confirmed.





OIL ANALYSIS REPORT



current

SAMPLE INFORMATION method limit/base



history2

history1

RECYCLE NH3 OIL

Refrigeration Compressor Fluid USPI ALT-68 SC (--- GAL)

DIAGNOSIS

A Recommendation

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

🔺 Wear

The iron level is abnormal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

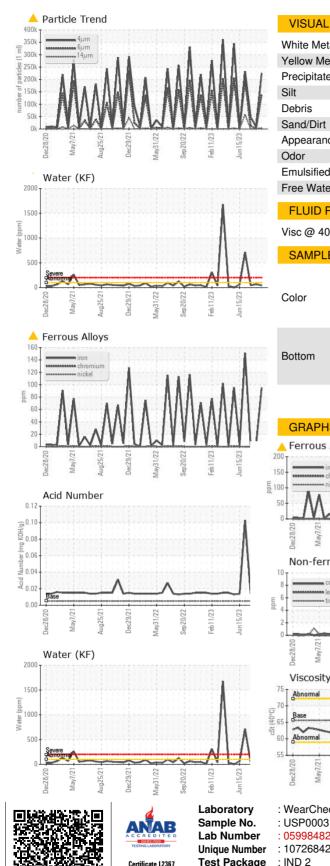
The AN level is at the top-end of the recommended limit. Confirm oil type.

SAMPLE INFORM	ATION	method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		USP0003104	USP05903270	USP228599
Sample Date		Client Info		01 Nov 2023	17 Jul 2023	07 Jul 2023
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				ABNORMAL	NORMAL	ABNORMAL
·	_					
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<mark>/</mark> 95	3	3
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>3	0	0	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m		0	0	0
Barium	ppm ppm	ASTM D5185m		0	<1	0
Molybdenum		ASTM D5185m		0	0	0
Manganese	ppm ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	2	6
						-
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	4	4
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m		0	<1	<1
Water	%	ASTM D6304		0.004	0.006	0.004
ppm Water	ppm	ASTM D6304	>100	43.0	68.0	44.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		224544	9875	47657
Particles >6µm		ASTM D7647	>2500	<u> </u>	2234	1 1729
Particles >14µm		ASTM D7647	>320	A 3607	72	258
Particles >21µm		ASTM D7647	>80	<u> </u>	12	29
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	4 25/24/19	20/18/13	▲ 23/21/15
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.014

Contact/Location: MIKE CISCO - TYSBER01



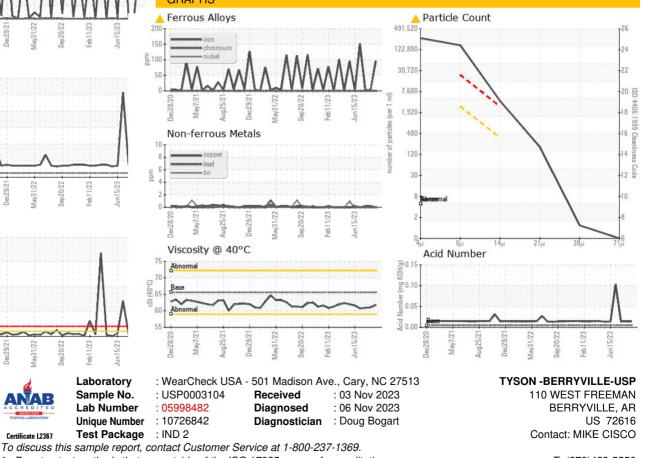
OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	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	LIGHT
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	🔺 HAZY	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	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	61.8	61.0	60.9
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
					A CONTRACTOR	







* - 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)

T: (870)423-5556 F: (870)423-1602

Contact/Location: MIKE CISCO - TYSBER01