

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

GEA TYSBER HS-05 (S/N 00721-Component

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

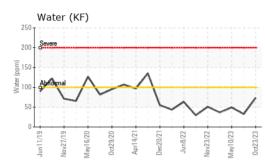
Fluid Condition

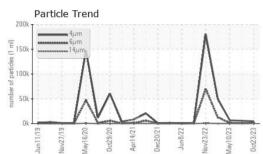
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

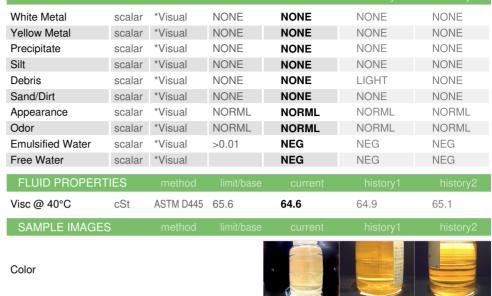
21-007-1-0 ⁻	1-01)					
		un2019 Nov201	9 May2020 Oct2020 Apr2	021 Dec2021 Jun2022 Nov2022 Ma	y2023 0et202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0003022	USP0000674	USP248246
Sample Date		Client Info		23 Oct 2023	02 Aug 2023	10 May 2023
Machine Age	hrs	Client Info		35628	33736	31760
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
ron	ppm	ASTM D5185m	>8	<1	<1	<1
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	<1	0	1
_ead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Γin /anadium	ppm	ASTM D5185m	>4	0	0	0
Zanadium Cadmium	ppm	ASTM D5185m ASTM D5185m		0	0	0
	ppm			-	-	-
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	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m ASTM D5185m		0	0	0
Phosphorus Zinc	ppm	ASTM D5185m		0	0	<1
Sulfur	ppm	ASTM D5185m	50	0	0	0
	ppm			-	-	-
CONTAMINANTS	5	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>15	3	3	3
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water Water	%	ASTM D6304	>0.01	0.007	0.003	0.004
opm Water	ppm	ASTM D6304	>100	73.4	32.6	49.2
FLUID CLEANLIN	NESS	method	limit/base		history1	history2
Particles >4µm		ASTM D7647		4616	5551	6526
Particles >6µm		ASTM D7647		1361	826	1265
Particles >14µm		ASTM D7647	>320	64	14	31
Particles >21µm		ASTM D7647		13	2	8
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm Dil Cleanliness		ASTM D7647 ISO 4406 (c)	>4 >/18/15	U 19/18/13	0 20/17/11	0 20/17/12
		()				
FLUID DEGRADA		method	limit/base		history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.015	0.028

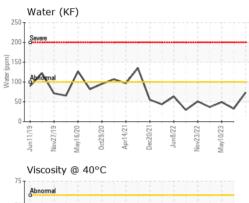


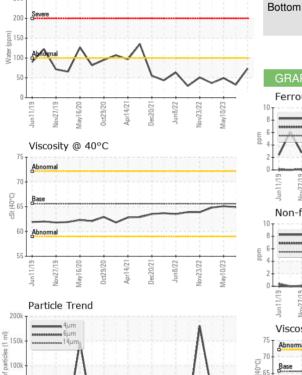
OIL ANALYSIS REPORT





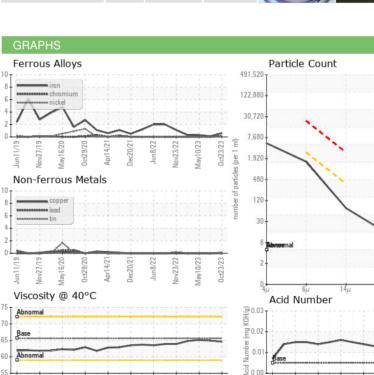






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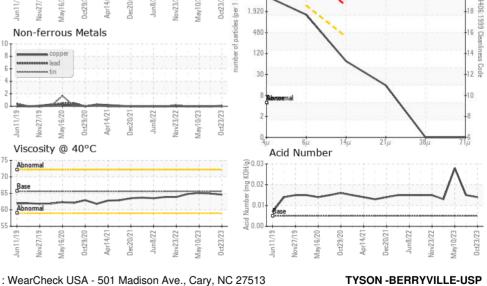
0ct23/23

: 02 Nov 2023

: 06 Nov 2023

: Doug Bogart

Jov23/22 Mav10/23



110 WEST FREEMAN BERRYVILLE, AR US 72616 Contact: MIKE CISCO

Test Package : IND 2 Certificate L2367 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)

Apr14/21 Dec20/21 un8/22

Received

Diagnosed

Diagnostician

Mav16/20

Nov27/19

: USP0003022

: 05996750

: 10725110

[un]

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

Report Id: TYSBER01 [WUSCAR] 05996750 (Generated: 11/06/2023 21:40:06) Rev: 1

C/2010

Laboratory

Sample No.

Lab Number

Unique Number

Contact/Location: MIKE CISCO - TYSBER01

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