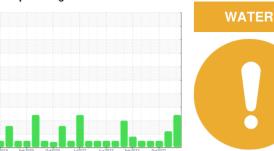


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

GEA TYSBER HS-05 (S/N 00721-007-1-01-01)

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a trace of moisture present in the oil.

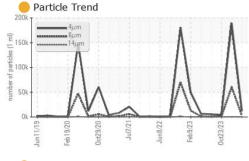
Fluid Condition

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

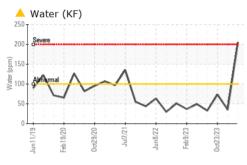
m2019 Feb2020 0c2020 Jul2021 Jum2022 Feb2023 0c2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006427	USP0005549	USP0003022
Sample Date		Client Info		10 Apr 2024	18 Jan 2024	23 Oct 2023
Machine Age	hrs	Client Info		37447	36397	35628
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	4	<1
Chromium	ppm	ASTM D5185m	>2	<1	<1	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	1	0	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		0	<1	0
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	0	3	3
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	11	<1	1
Water	%	ASTM D6304	>0.01	△ 0.020	0.003	0.007
ppm Water	ppm	ASTM D6304	>100	<u>^</u> 205	35	73.4
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		11904	189471	4616
Particles >6µm		ASTM D7647	>2500	2831	△ 60239	1361
Particles >14μm		ASTM D7647	>320	60	△ 325	64
Particles >21µm		ASTM D7647	>80	8	9	13
Particles >38μm		ASTM D7647	>20	1	0	0
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	2 1/19/13	<u>\$\text{\Delta}\$ 25/23/16</u>	19/18/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.014

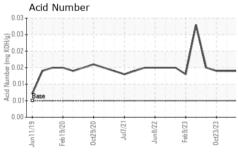


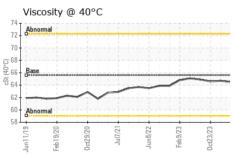
OIL ANALYSIS REPORT

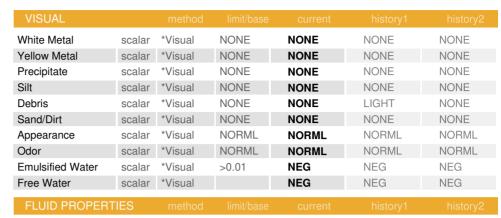


250	er (KF)				
200 - Severe						
§ 100 - 9	mal	-	1			\rightarrow
50				^	~~	V V
Jun11/19	Feb 19/20	Oct29/20	Jul7/2	Jun8/22	Feb9/23	Oct23/23





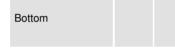




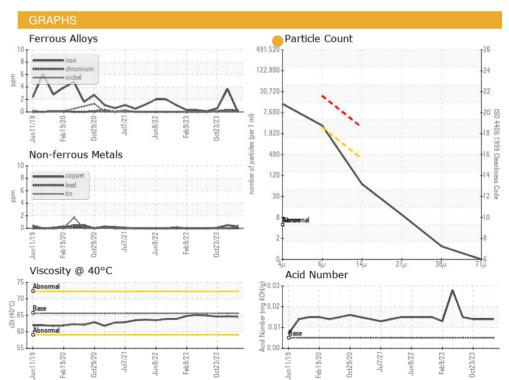
/isc @ 40°C	cSt	ASTM D445	65.6	64.5	64.7	64.6
SAMPLE IMAGI	ES					

Color

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Certificate 12367

Laboratory Sample No. Lab Number

: 06154456

: USP0006427 Unique Number : 10989879 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Apr 2024

Tested : 22 Apr 2024 Diagnosed : 22 Apr 2024 - Doug Bogart **TYSON-BERRYVILLE-USP**

110 WEST FREEMAN BERRYVILLE, AR US 72616

Contact: MIKE CISCO

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

F: (870)423-1602 Contact/Location: MIKE CISCO - TYSBER01

T: (870)423-5556