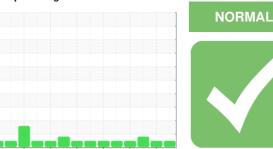


# **OIL ANALYSIS REPORT**

### Sample Rating Trend



Machine Id

# GEA TYSLOG RC-11 (S/N 00471-004-1-01-01)

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

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

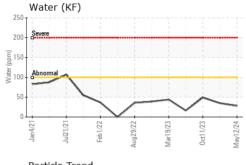
### **Fluid Condition**

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

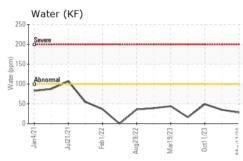
		Jan2021 J	ul2021 Feb2022 Aug	2022 Mar2023 Jun2023	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0011369	USP0005699	USP0001343
Sample Date		Client Info		12 May 2024	27 Jan 2024	11 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	<1
Chromium	ppm	ASTM D5185m	>2	0	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	0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	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	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m		0	0	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	<1	<1	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.01	0.003	0.003	0.004
ppm Water	ppm	ASTM D6304	>100	28	35	49.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1357	433	11308
Particles >6µm		ASTM D7647		228	100	<b>3677</b>
Particles >14µm		ASTM D7647	>320	6	8	174
Particles >21µm		ASTM D7647	>80	1	3	33
Particles >38µm		ASTM D7647	>20	0	0	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	18/15/10	16/14/10	21/19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.013	0.014

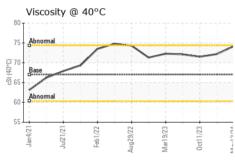


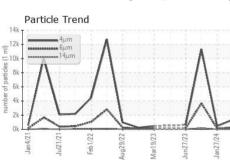
## **OIL ANALYSIS REPORT**



14k T	ticle Tre	enu				
= 12k	••••• 6µm ••••• 14µп	1	1			Λ
numper of bartrodes (1 10k + 1	1	1	1		- 1	1
6k of 6k	1					
2k -	$^{\prime}$	/	1		-1/	11-
Ok Gost	12/	722	22	73	Z3	24
Jan4,	Jul21/21	Feb1/22	Aug29/22	Mar19/23	Jun27,	Jan27/24





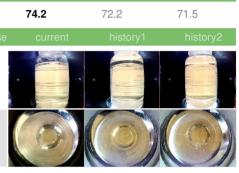


VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

I LOID I NOI LI	TILO	memou			HISTOLAL	riistory
Visc @ 40°C	cSt	ASTM D445	67	74.2	72.2	71.5

SAMPLE IMAGES	metnoa	ilmit/base	
Color			





CD	ADLIC										
	APHS rous Al	love					Dart	icle Count			
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8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 -	iron chror	nium					122,880				-24
E 6							30,720-				-22
0	21	72	727	23	23	24	- 章 7,680-				-20 8
Jan4/21	Jul21/21	Feb1/22	Aug29/22	Mar19/23	Jun27/23	Jan27/24	1,920 -				+20 4406:1999 Cleanliness Code
Nor	า-ferroเ	us Meta	als				1,920 480 120 - 12	1			-16 Clea
8-	copp	er					120 <b>-</b>				+14 ess
C	tin						30+				-12 G
2	Marin Contract of the Contract	term					8 Shreen	nal			-10
Jan4/21	Jul21/21-	Feb 1/22	Aug29/22	Mar19/23	Jun27/23	Jan27/24	2-		/		-8
	cosity @			Ma	Jur	Jar	Q. Acid	6μ 14μ I Number	21μ	38μ	71 <sub>µ</sub> 6
	ormal						0.00 Pase (mg KOH/g)				
0-70 - Base 8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-							b 0.01	$\overline{}$			_
60 - Abn	ormal						0.01- Base				
55 + 12/4	1/2/1	/22	1/22	1/23	/23	7.4	Ació 1/21	1/21	3/22	1/23	/23
Jan4/21	Jul21/21	Feb1/22	Aug29/22	Mar19/23	Oct11/23	Mav12/24	Jan4/2	Jul21/21	Aug29/22	Mar19/23	Oct11/23 May12/24





Certificate 12367

Laboratory

Sample No.

: USP0011369 Lab Number : 06177219

Unique Number : 11023272

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

: 13 May 2024 : 14 May 2024 Diagnosed : 14 May 2024 - Doug Bogart **TYSON-LOGANSPORT-USP** 

LOGANSPORT, IN US Contact: RICK DUVAL

T: (402)423-6375

F: (402)423-6661

Test Package : IND 2 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)