

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id

GEA PAR FRY LS-2 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 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.

		pr2018 Mar2	019 Jan2020 Dec2020	May2021 Feb2022 Jan2023	Dec2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0008037	USP0004221	USP0000250
Sample Date		Client Info		02 Apr 2024	14 Dec 2023	30 Aug 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	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	0	0
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m	0	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm		>3	0	0	<1
Lead	ppm	ASTM D5185m ASTM D5185m	>2 >8	<1 <1	0	0
Copper Tin	ppm	ASTM D5185m	>0 >4	<1	0	0
Vanadium	ppm ppm	ASTM D5185m	~7	<1	0	0
Cadmium	ppm	ASTM D5185m		<1	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		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	1	0
Zinc	ppm	ASTM D5185m	= 0	0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m		<1	2	0
Water	%	ASTM D6304		0.008	0.005	0.008
ppm Water	ppm	ASTM D6304	>100	87	50	86.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		6086	6411	1974
Particles >6µm		ASTM D7647		1387	1809	538
Particles >14µm		ASTM D7647	>320	46	46	33
Particles >21µm		ASTM D7647		8	5	5
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0

Acid Number (AN)

FLUID DEGRADATION

Oil Cleanliness

mg KOH/g ASTM D974 0.005

ISO 4406 (c) >--/18/15

Contact/Location: SERVICE MANAGER - TYSGREAR

20/18/13

0.014

20/18/13

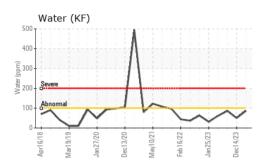
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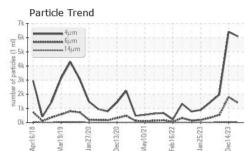
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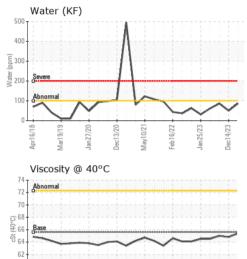
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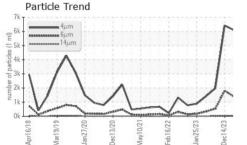
OIL ANALYSIS REPORT



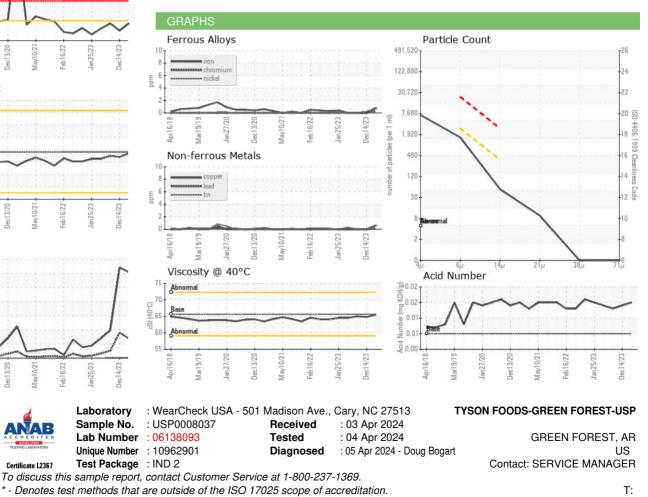








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	65.4	64.8	65.0
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				a.		
Bottom					(\bigcirc)	



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: SERVICE MANAGER - TYSGREAR

F: