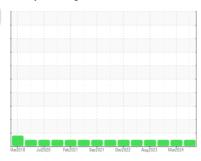


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id FRICK 18/E Component
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.

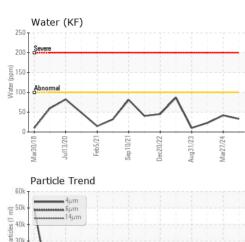
Fluid Condition

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

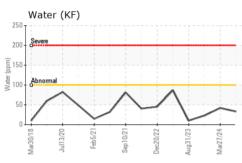
		Mar2018 Ji		2021 Dec2022 Aug2023 I	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012394	USP0007976	USP0004387
Sample Date		Client Info		09 Jul 2024	27 Mar 2024	12 Dec 2023
Machine Age	hrs	Client Info		17139	15408	13995
Oil Age	hrs	Client Info		15824	14095	12680
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	4	0	2
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		<1	1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	<1	<1	0
Lead	ppm	ASTM D5185m	>2	0	<1	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	0	<1	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	6
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		<1	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	39	40	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	0	<1
Sodium	ppm	ASTM D5185m		3	1	0
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water	%	ASTM D6304	>0.01	0.003	0.004	0.002
ppm Water	ppm	ASTM D6304	>100	33	42	23
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	397	1792	4256
Particles >6μm		ASTM D7647	>2500	94	235	511
Particles >14µm		ASTM D7647	>320	10	7	9
Particles >21µm		ASTM D7647	>80	2	2	3
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	16/14/10	18/15/10	19/16/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.027	0.014

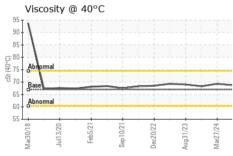


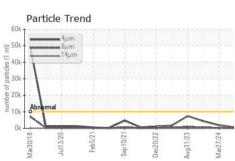
OIL ANALYSIS REPORT



50k -	4μm 6μm	1				
40k - 30k - 20k - Abnom	14 _J zm	J				
30k						
ZUK	n al					
10k - Abnom	Idi					
1	Idi					-
10k Abnom	Jul13/20	Feb5/21	Sep10/21	Dec20/22	Aug31/23	Mar27/24







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 PROPERT	TIES	method	limit/base	current	history1	history2

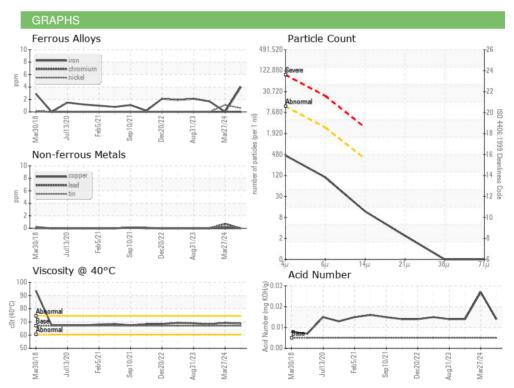
FLUID PROPE	111EO	method			riistory i	nistory∠
Visc @ 40°C	cSt	ASTM D445	67	68.7	69.3	68.3

-c		\circ
SAIVIE	LE IMAGE	_
	LL IIVII (GL	

Bottom

Color









Certificate 12367

Laboratory Sample No.

Test Package : IND 2

: USP0012394 Lab Number : 06238472 Unique Number : 11127306

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Jul 2024 **Tested** : 18 Jul 2024

Diagnosed

: 18 Jul 2024 - Doug Bogart

CARGIL INC 3130 GHOLSON RD WACO, TX US 76705

Contact: Service Manager

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)

T:

F: