

OIL ANALYSIS REPORT



Machine Id FRICK C-21 Component Refrigeration Compressor Fluid USPI 1009-68 SC (30 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.

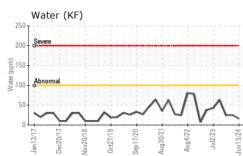
						NORMAL
					.l	
n2017	Dec2017	Nov2018	Oct2019 Sep202	0 Aug2021 Aug2022	Jul2023 Jun20	

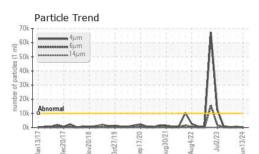
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0013304	USP0005960	USP0004605
Sample Date		Client Info		13 Jun 2024	24 Feb 2024	02 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	<1	<1	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	0	1	0
Copper	ppm	ASTM D5185m	>8	<1	0	<1
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		<1	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water	%	ASTM D6304	>0.01	0.002	0.002	0.002
ppm Water	ppm	ASTM D6304	>100	16	25	24
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	210	683	396
Particles >6µm		ASTM D7647	>2500	50	122	123
Particles >14µm		ASTM D7647	>320	3	8	15
Particles >21µm		ASTM D7647	>80	1	3	5
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	15/13/9	17/14/10	16/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.015

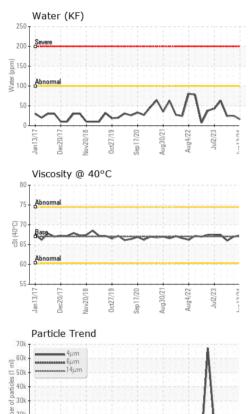
Contact/Location: MIKE DUNLAP - CARDAY Page 1 of 2



OIL ANALYSIS REPORT









Certificate 12367



VIOUAL		methou	iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Guirent	mistory i	Thistory Z
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	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	67.3	67.0	66.0
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color				•	•	•
Bottom						

GRAPHS Ferrous Alloys Particle Count 491 520 122,88 30.72 20 28 Jun13/24 0ct27/19 ug4/22 4406 an 13/ 1/0C/vo (per 1 1,920 1999 Clea Non-ferrous Metals 480 6 10 120 14 12 Code 30 un13/24 ug4/22 en17/20 a30/7 lan 13/1)ec20/ 14 Viscosity @ 40°C Acid Number 20.0 per (mg KOH/g) 10.0 cm 8 75 70 Bas Abnorma Bas 0.01 60 00.0 Acid 55 Aug4/22 -Jun13/24 -Aug4/22 un13/24 Sep17/20 an 13/1 an13/1 ec20/1 ct27/19 ua30/2 v20/1 : WearCheck USA - 501 Madison Ave., Cary, NC 27513 CARGILL : USP0013304 Received : 14 Jun 2024 Lab Number : 06210818 Tested : 19 Jun 2024 DAYTON, VA Unique Number : 11083682 Diagnosed : 19 Jun 2024 - Doug Bogart US



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

Test Package : IND 2

* - 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)

Report Id: CARDAY [WUSCAR] 06210818 (Generated: 06/22/2024 23:37:17) Rev: 1

F: (540)879-2913 Contact/Location: MIKE DUNLAP - CARDAY

T:

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