

OIL ANALYSIS REPORT

Machine Id FRICK TYSAMAFRE 1 FRICK (S/N S006QFMCTHAC03)

Refrigeration Compressor

Fluic USPI 1009-68 SC (--- GAL)

DIAGNOSIS

A Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

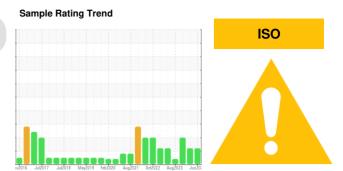
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

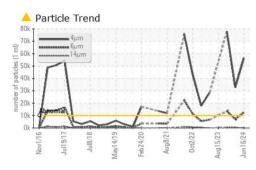
		w2016 Jul20	17 Jul2018 May2019	Feb2020 Aug2021 Oct2022 Aug	2023 Jun20.	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0013268	USP0006068	USP0003976
Sample Date		Client Info		16 Jun 2024	17 Mar 2024	03 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	0	<1
Chromium	ppm	ASTM D5185m	>2	0	<1	0
Nickel	ppm	ASTM D5185m		<1	0	0
Fitanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	1
ead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	<1
Γin	ppm	ASTM D5185m	>4	0	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	0	0
Nolybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Vagnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		<1	0	<1
Phosphorus	ppm	ASTM D5185m		<1	0	0
Zinc	ppm	ASTM D5185m		<1	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
					-	-
CONTAMINANTS		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	0
Sodium	ppm	ASTM D5185m	00	2	<1	0
Potassium	ppm	ASTM D5185m		0	0	2
Water	%	ASTM D6304		0.001	0.001	0.001
opm Water	ppm	ASTM D6304		11	7	14
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	56467	▲ 32751	▲ 77867
Particles >6µm		ASTM D7647		<u> </u>	<u> </u>	<u> </u>
Particles >14µm		ASTM D7647	>320	102	288	3 77
Particles >21µm		ASTM D7647	>80	6	55	<u> </u>
Particles >38µm		ASTM D7647	>20	0	2	1
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 23/21/14	A 22/20/15	▲ 23/21/16
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

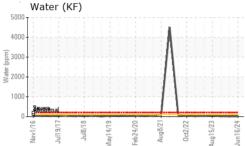
Contact/Location: RANDY INGRAM - TYSAMA Page 1 of 2

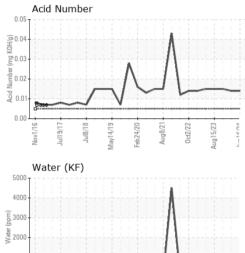


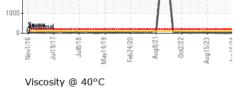


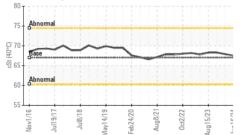
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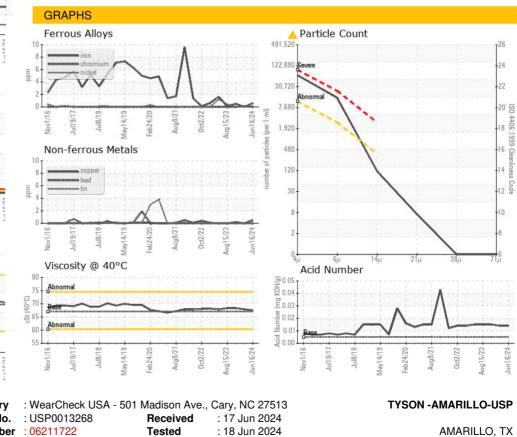
d	Laboratory	: WearC	
NAB	Sample No.	: USP00	
	Lab Number	:06211	
ING LABORATORY	Unique Number	: 11084	
ificate L2367	Test Package	: IND 2	
diaquaa thia	aamala ranart	contact	

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	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
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
Visc @ 40°C	cSt	ASTM D445	67	67.5	67.9	68.3
SAMPLE IMAGES	S	method	limit/base	current	history1	history2

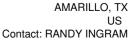
Color



Bottom



: 20 Jun 2024 - Doug Bogart



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

: 11084586

* - 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)

Diagnosed

T: (806)355-7732 F: (806)352-6946

Report Id: TYSAMA [WUSCAR] 06211722 (Generated: 06/23/2024 02:42:23) Rev: 1

Contact/Location: RANDY INGRAM - TYSAMA