

OIL ANALYSIS REPORT

Sample Rating Trend



FRICK TYSWAT 00 FR (S/N S0384MFMPTHAA3)

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

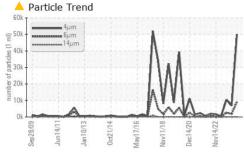
Fluid Condition

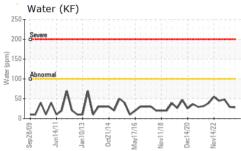
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

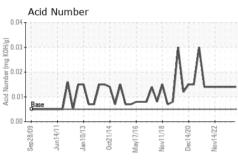
32009 Jun2011 Jun2013 Ou2014 May2016 Nov2018 Dec2020 Nov2022							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		USP0007601	USP0001254	USP244717	
Sample Date		Client Info		26 Feb 2024	12 Oct 2023	04 Jul 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				ABNORMAL	NORMAL	ATTENTION	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>8	2	0	<1	
Chromium	ppm	ASTM D5185m	>2	<1	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		0	0	<1	
Lead	ppm	ASTM D5185m	>2	0	0	0	
Copper	ppm	ASTM D5185m		0	0	0	
Tin	ppm	ASTM D5185m	>4	0	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		0	<1	<1	
Magnesium	ppm	ASTM D5185m		0	0	0	
Calcium	ppm	ASTM D5185m		<1	0	0	
Phosphorus	ppm	ASTM D5185m		0	<1	0	
Zinc	ppm	ASTM D5185m		0	0	0	
Sulfur	ppm	ASTM D5185m	50	0	19	19	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	0	<1	<1	
Sodium	ppm	ASTM D5185m		0	<1	0	
Potassium	ppm	ASTM D5185m	>20	1	0	1	
Water	%	ASTM D6304	>0.01	0.003	0.003	0.004	
ppm Water	ppm	ASTM D6304	>100	28	29.2	48.4	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647		49913	6912	10444	
Particles >6µm		ASTM D7647	>2500	<u>4</u> 9212	1871	▲ 2572	
Particles >14μm		ASTM D7647	>320	60	54	62	
Particles >21µm		ASTM D7647	>80	7	9	8	
Particles >38µm		ASTM D7647	>20	0	0	0	
Particles >71µm		ASTM D7647	>4	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>/18/15	23/20/13	20/18/13	2 1/19/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.014	

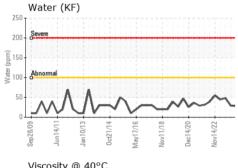


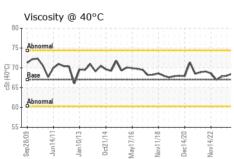
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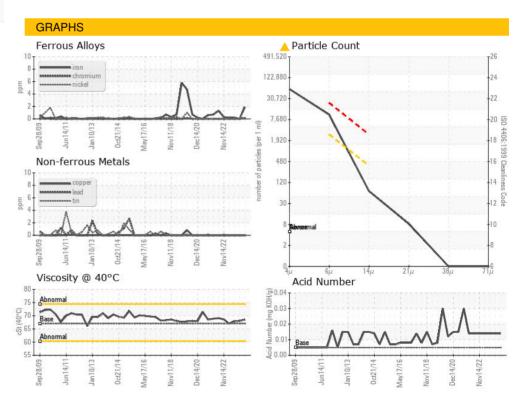
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	IES	method	limit/base	current	history1	history2
Vice @ 40°C	oC+	ACTM DAAE	67	60 E	60.0	67.0

CAMBLEIMAGE	2	mothod	limit/baco	ourront	hictoryt	hictory?
Visc @ 40°C	cSt	ASTM D445	67	68.5	68.0	67.8

Color











Certificate L2367

Laboratory Sample No. Lab Number : 06101030 Unique Number: 10899260

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0007601

Received **Tested**

: 26 Feb 2024 : 27 Feb 2024

: 27 Feb 2024 - Doug Bogart Diagnosed

TYSON - WATERLOO - USP CODE TYSWATPRO

501 N Elk Run Road Waterloo, IA US 50703

T: (319)236-9328

F: (319)236-9393

Contact: ED ALBERT

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)

Report Id: IBPWAT01 [WUSCAR] 06101030 (Generated: 02/28/2024 03:09:58) Rev: 1

Contact/Location: ED ALBERT - IBPWAT01