

OIL ANALYSIS REPORT

Sample Rating Trend



FRICK TYSDAR 30B (S/N TDSL23310098FF)

Refrigeration Compressor

USPI ALT-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.

SAMPLE INFORM	//ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0007694	USP0000133	USP243461
Sample Date		Client Info		21 Feb 2024	01 Sep 2023	18 May 2023
Machine Age	hrs	Client Info		15382	13323	11785
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	5	5	5
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	<1	0	<1
Lead	ppm	ASTM D5185m	>2	<1	0	0
Copper	ppm	ASTM D5185m	>8	<1	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		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Coloium		ASTM D5185m		0	0	
Calcium	ppm	HICOLCG INLEY		~	U	0
Phosphorus	ppm	ASTM D5185m		<1	<1	1
				<1 0	-	
Phosphorus	ppm	ASTM D5185m	50		<1	1
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m	50 limit/base	0	<1 0	1 0
Phosphorus Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method		0 6	<1 0 8	1 0 21
Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	0 6 current	<1 0 8 history1	1 0 21 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base	0 6 current	<1 0 8 history1	1 0 21 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base >15 >20	0 6 current 1 <1	<1 0 8 history1 <1 <1	1 0 21 history2 <1 0
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >15 >20 >0.01	0 6 current 1 <1 <1	<1 0 8 history1 <1 <1	1 0 21 history2 <1 0
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	limit/base >15 >20 >0.01	0 6 current 1 <1 <1 <1 0.003	<1 0 8 history1 <1 <1 1 0.003	1 0 21 history2 <1 0 0 0.007
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	limit/base >15 >20 >0.01 >100	0 6 current 1 <1 <1 <1 0.003 37	<1 0 8 history1 <1 <1 1 0.003 28.2	1 0 21 history2 <1 0 0 0.007 76.4
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	limit/base >15 >20 >0.01 >100 limit/base	0 6 current 1 <1 <1 0.003 37 current	<1 0 8 history1 <1 <1 1 0.003 28.2 history1	1 0 21 history2 <1 0 0 0.007 76.4 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	limit/base >15	0 6 current 1 <1 <1 0.003 37 current	<1 0 8 history1 <1 <1 1 0.003 28.2 history1 6909	1 0 21 history2 <1 0 0 0.007 76.4 history2 2789
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647	limit/base >15 >20 >0.01 >100 limit/base >10000 >2500	0 6 current 1 <1 <1 0.003 37 current 1161 225	<1 0 8 history1 <1 <1 1 0.003 28.2 history1 6909 1330	1 0 21 history2 <1 0 0 0.007 76.4 history2 2789 517
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647	limit/base >15 >20 >0.01 >100 limit/base >10000 >2500 >320	0 6 current 1 <1 <1 0.003 37 current 1161 225 5	<1 0 8 history1 <1 <1 1 0.003 28.2 history1 6909 1330 35	1 0 21 history2 <1 0 0 0.007 76.4 history2 2789 517 15
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 >0.01 >100 limit/base >10000 >2500 >320 >80	0 6 current 1 <1 <1 <1 0.003 37 current 1161 225 5 2	<1 0 8 history1 <1 <1 1 0.003 28.2 history1 6909 1330 35 3	1 0 21 history2 <1 0 0 0.007 76.4 history2 2789 517 15 2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 >0.01 >100 limit/base >10000 >2500 >320 >80 >20	0 6 current 1 <1 <1 <0.003 37 current 1161 225 5 2 0	<1 0 8 history1 <1 <1 <1 0.003 28.2 history1 6909 1330 35 3 0	1 0 21 history2 <1 0 0 0.007 76.4 history2 2789 517 15 2

Acid Number (AN)

0.013

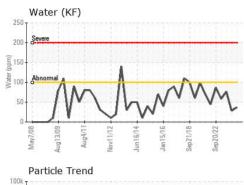
0.015

mg KOH/g ASTM D974 0.005

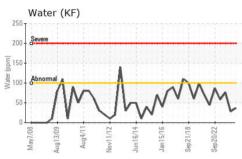
0.014

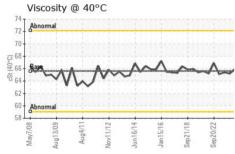


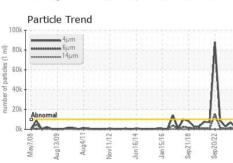
OIL ANALYSIS REPORT

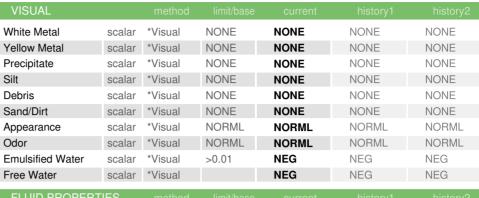


80k -	4µ						-1-
60k							1
40k							1
20k -	Abnormal						
0k	A					V	
- N	May7/08 Aug13/09	Aug4/11	12	Jun16/14	Jan15/16	Sep21/18	Sep20/22





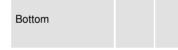




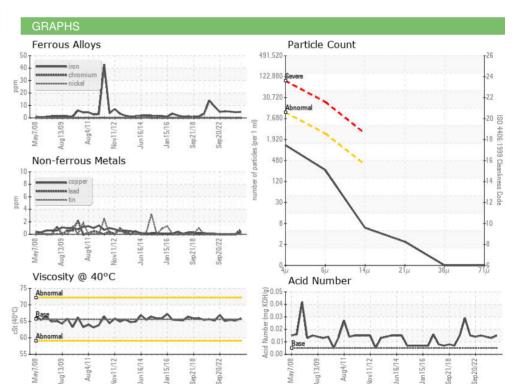
FLUID FROFER	IIIEO	memou			HISTORY	HISTOLYZ	
Visc @ 40°C	cSt	ASTM D445	65.6	65.9	65.2	65.4	

Color

SAMPLE IMAGES











Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0007694

: 06099199 Unique Number: 10897429 Test Package : IND 2

Received : 23 Feb 2024 **Tested** : 26 Feb 2024

: 26 Feb 2024 - Doug Bogart Diagnosed

TYSON-DARDANELLE-USP

DARDANELLE, AR

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)

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