

OIL ANALYSIS REPORT

FRICK TYSWAL HS-10 (S/N TDSH233L2153F) Component

Refrigeration Compressor USPI ALT-68 SC (165 GAL)

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 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 Rating Trend

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0004056	USP0000376	USP243511
Sample Date		Client Info		06 Dec 2023	26 Aug 2023	16 May 2023
Machine Age	hrs	Client Info		27988	36998	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	0	0	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	<1
Lead	ppm	ASTM D5185m	>2	0	<1	0
Copper	ppm	ASTM D5185m		0	0	0
Tin	ppm	ASTM D5185m	>4	0	0	<1
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	0	<1
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		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	141	177
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	1
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water	%	ASTM D6304	>0.01	0.003	0.003	0.008
ppm Water	ppm	ASTM D6304	>100	39	38.5	81.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	3165	1519	3844
Particles >6µm		ASTM D7647	>2500	679	269	1056
Particles >14µm		ASTM D7647	>320	32	37	58
Particles >21µm		ASTM D7647	>80	6	14	9
Particles >38µm		ASTM D7647	>20	0	0	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/12	18/15/12	19/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.013	0.015	0.013



Water (KF)

OIL ANALYSIS REPORT

scalar

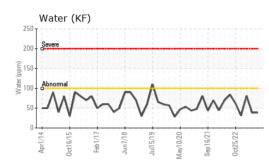
scalar

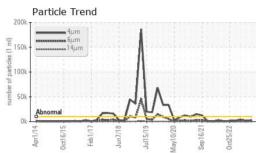
scalar

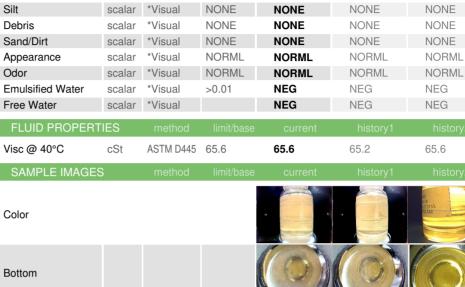
*Visual

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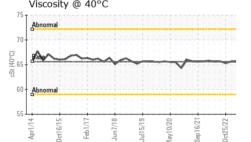


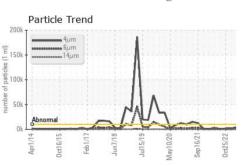




NONE

250 200 <u>ال</u> 150 Water 5 n PD16/71 -l ha 1 Viscosity @ 40°C





GRAPHS Ferrous Alloys Particle Count 491 52 122,88 30.72 CAL na Feb 1 Der 1,920 Non-ferrous Metals 480 120 30 0ct25/22 en 16/2 Feb1 P. Viscosity @ 40°C Acid Number 75 (B/HO) 0.02 70 (10°C) 0.0 Abnorm 0.01 P 0.00 55 Sep16/21. Feb1/17 Mav10/20 Sep 16/21 0r418/15 1/18 Oct16/15 Feb 1/1 av10/2 Anri April Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **TYSON - WALDRON- USP** Sample No. : 08 Dec 2023 : USP0004056 Received Lab Number :06030008 : 12 Dec 2023 Diagnosed Unique Number : 10779799 Diagnostician : Doug Bogart

WALDRON, AR US Contact: DANNY HOUSTON danny.houston@tyson.com T: (479)637-2121 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (479)637-5602

White Metal

Yellow Metal

Precipitate

Contact/Location: DANNY HOUSTON - TYSWALAR

20 8

1400

6661

Report Id: TYSWALAR [WUSCAR] 06030008 (Generated: 12/13/2023 02:08:55) Rev: 1

Certificate L2367

Test Package

: IND 2

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.

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