

OIL ANALYSIS REPORT

Sample Rating Trend



HOWDEN TYSWAL B-1 (S/N MK 46/WRV255/16536/823)

Refrigeration Compressor

USPI ALT-68 SC (160 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 component. The amount and size of particulates present in the system is acceptable.

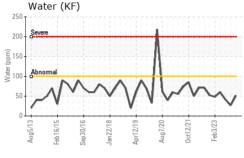
Fluid Condition

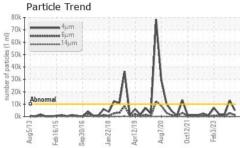
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

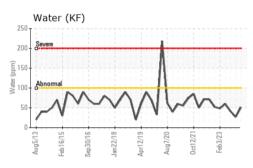
		g2013 Feb20	15 Sep2016 Jan2018	Apr2019 Aug2020 Oct2021 F	eb2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006164	USP0004060	USP0000380
Sample Date		Client Info		19 Mar 2024	05 Dec 2023	26 Aug 2023
Machine Age	hrs	Client Info		0	89538	88533
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	<1	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	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	1
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	169	10	138
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	2	1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Water	%	ASTM D6304	>0.01	0.005	0.003	0.004
ppm Water	ppm	ASTM D6304	>100	51	27	41.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	4953	12975	1433
Particles >6µm		ASTM D7647	>2500	1217	2818	273
Particles >14μm		ASTM D7647	>320	20	50	31
Particles >21μm		ASTM D7647	>80	4	5	12
Particles >38μm		ASTM D7647	>20	0	0	1
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/11	21/19/13	18/15/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.012	0.014

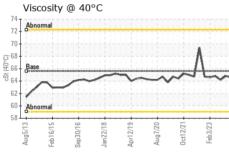


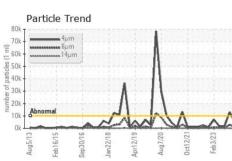
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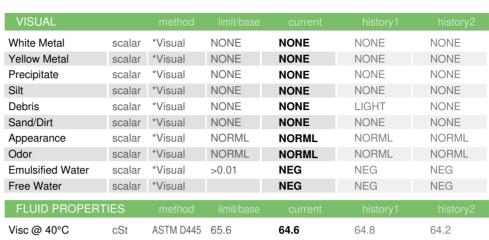








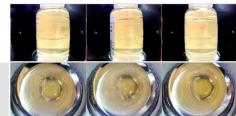


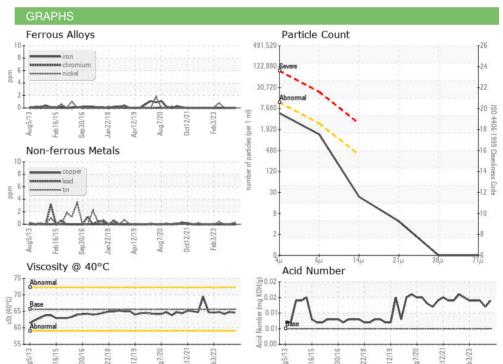


SAMPLE IMAGES

Bottom

Color







Certificate L2367

Laboratory Sample No. Lab Number

: 06123697

: USP0006164

Unique Number: 10937848 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Mar 2024 **Tested** : 25 Mar 2024

Diagnosed

: 25 Mar 2024 - Jonathan Hester

WALDRON, AR US

TYSON - WALDRON- USP

Contact: DANNY HOUSTON danny.houston@tyson.com

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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)