

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

HOWDEN TYSHUTD 401 (S/N 2515344)

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

DIAGNOSIS

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.

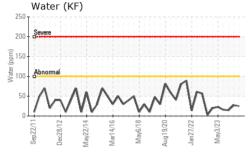
Fluid Condition

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

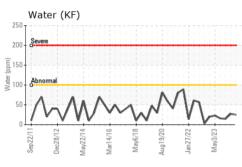
		p2011 Dec20	12 May2014 Mar2016	May2018 Aug2020 Jan2022 N	Tay2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0011348	USP0007119	USP0003383
Sample Date		Client Info		02 May 2024	12 Feb 2024	01 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	2
Chromium	ppm	ASTM D5185m	>2	0	0	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	0	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	<1
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
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		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	<1
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	0	0
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.01	0.002	0.003	0.001
ppm Water	ppm	ASTM D6304	>100	25	27	14.5
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	4905	6438	11789
Particles >6µm		ASTM D7647	>2500	803	1372	2333
Particles >14µm		ASTM D7647	>320	13	34	40
Particles >21µm		ASTM D7647	>80	2	4	7
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/11	20/18/12	21/18/12
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

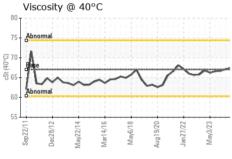


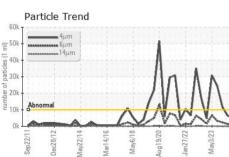
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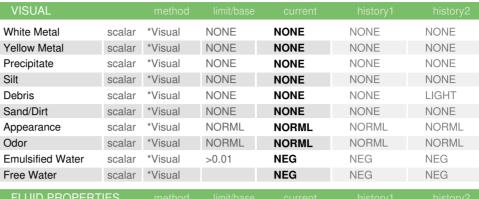


Ok I	4j.	ım				
Dk -	14	μm		A		
0k				11	1 /	1
			-	111	11	111
Ok - Abno	rmal			/ AV	1.1	W
Dk - Abno	mal	مم	9	<u>/\</u>	W	W







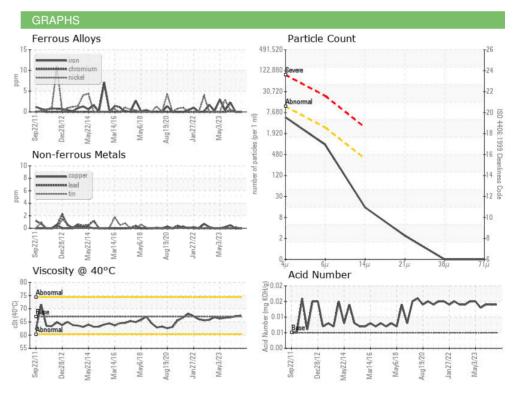


FLUID PROPER	THES	method			riistory i	HISTORYZ
Visc @ 40°C	cSt	ASTM D445	67	67.5	67.1	66.7

SAMPLE IMAGES	method	
Color		











Certificate 12367

Laboratory Sample No. Lab Number : 06175549

Test Package : IND 2

: USP0011348 Unique Number : 11021602

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 May 2024

Tested : 13 May 2024 Diagnosed : 13 May 2024 - Doug Bogart

TYSON DSKL -HUTCHINSON - USP

9 N WASHINGTON HUTCHINSON, KS US

Contact: SCOTT OWEN

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

 st - 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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