

OIL ANALYSIS REPORT

Sample Rating Trend

Machine Id

HOWDEN TYSHUTD 1A (S/N 2335079)

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

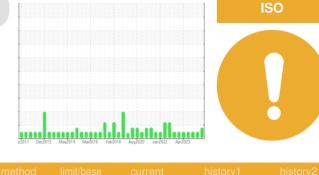
All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 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.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0011339	USP0007118	USP0003380
Sample Date		Client Info		01 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				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m		0	0	<1
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	0
Lead		ASTM D5185m	>2	0	0	0
	ppm	ASTM D5185m		0	0	<1
Copper Tin	ppm	ASTM D5185m ASTM D5185m	>8 >4	0	0	< 1
Vanadium	ppm		>4			
	ppm	ASTM D5185m		0	0	<1 0
Cadmium	ppm	ASTM D5185m		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		<1	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	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	1
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.01	0.001	0.003	0.001
ppm Water	ppm	ASTM D6304	>100	14	27	6.6
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	e 10063	3927	9040
Particles >6µm		ASTM D7647	>2500	1562	1117	2203
Particles >14µm		ASTM D7647	>320	28	57	84
Particles >21µm		ASTM D7647	>80	5	9	13
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	21/18/12	19/17/13	20/18/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.045	0.014
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0.00

250

20

E 150

Nater 100

100 ma

80

75

(10°C) to 20°C

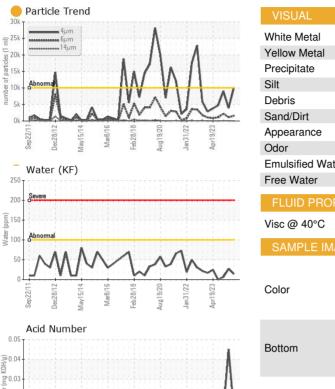
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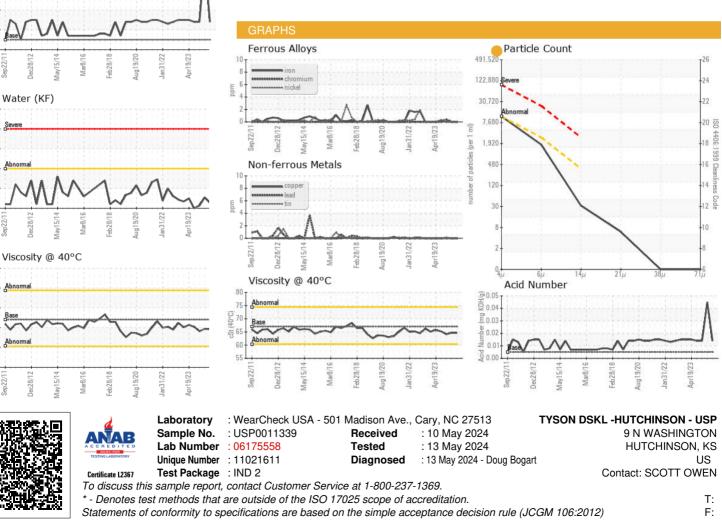
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