

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



WILTER HB-2 (S/N 2555092)

Component
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.

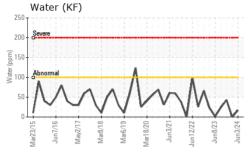
Fluid Condition

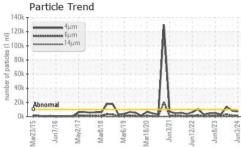
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

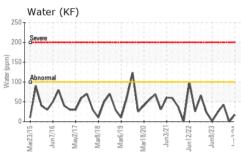
		w2015 Jun2011	5 May2017 Mar2018 Mar20	019 Mar2020 Jun2021 Jun2022 Ju	in2023 Jun20	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012605	USP0007378	USP0003897
Sample Date		Client Info		03 Jun 2024	06 Mar 2024	06 Dec 2023
Machine Age	hrs	Client Info		0	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	<1
Chromium	ppm	ASTM D5185m	>2	0	0	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
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	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	<1	0
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	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	0
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.01	0.002	0.001	0.004
ppm Water	ppm	ASTM D6304	>100	17	0	43
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	7085	8109	13974
Particles >6μm		ASTM D7647	>2500	1122	1294	3204
Particles >14µm		ASTM D7647	>320	38	35	69
Particles >21µm		ASTM D7647	>80	9	4	13
Particles >38µm		ASTM D7647	>20	1	0	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/17/12	20/17/12	21/19/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.015	0.015

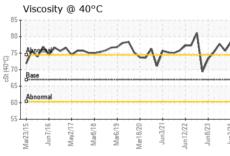


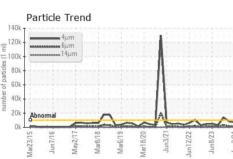
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TEC.	method	limit/hase	current	history1	history2

T LOID I TIOI LITT						
Visc @ 40°C	cSt	ASTM D445	67	78.3	75.7	77.8

SAMPLE IMAGES	method	
Color		, and an





GRAPHS		
Ferrous Alloys	Particle Count	
10 iron	491,520	T ²⁶
6 6 A nipkel	122,880 Severe	-24
AAA	30,720	-22
2 1	Abnormal 7,680	20 50
Mar6/15 Mar6/17 Mar6/18 Mar6/19 Mar18/20 Jun3/21 Jun8/23 Jun3/24		0 440
Mari Mari Jun Jun	图 1,920	18 199
Non-ferrous Metals	1,920 1,920 480	16 Cea
	120	180 4406:1999 Cleanliness Code
E 6 accessed the control of the cont	30	12 G
	8	10
Mar6/15 Mar6/17 Mar6/18 Mar18/20 Jun3/21 Jun3/24	2-	-8
2 7	0 4μ 6μ 14μ 21μ 38μ	710
Viscosity @ 40°C	Acid Number	
	NO.04	
Ahnomal Base Abnomal	E 0.03	٨
Abnormal	g 0.02	1
50	A Soid Number (mg KOH (mg NO 100 100 100 100 100 100 100 100 100 10	
723/15 av/2/17 av/2/17 av/2/17 in/3/20 in/2/22 in/3/24	123/15 in7/16 ar6/19 ar6/19 un3/21	m8/23





Certificate 12367

Laboratory Sample No.

: USP0012605 Lab Number : 06199287 Unique Number : 11061410 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Jun 2024

Tested Diagnosed

: 09 Jun 2024 : 09 Jun 2024 - Doug Bogart ARMOUR ECKRICH-MASON

1401 S EISENHOWER AVE MASON CITY, IA

US 50401 Contact:

T:

F:

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)