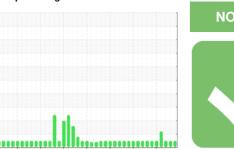


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

HOWDEN 2 LOGANVIEW (S/N MK3C-012)

Refrigeration Compressor

USPI 1009-68 SC (30 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Woor

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.

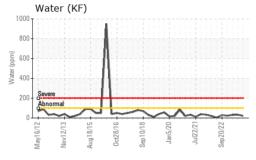
Fluid Condition

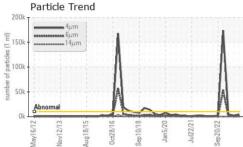
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

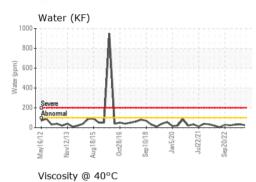
_η ζ012 Νως2013 Αυ _θ 2015 Οσ2016 Sφ ₂ 2016 Jan2020 Ju2021 Sφ ₂ 2022						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP244712	USP231870	USP231869
Sample Date		Client Info		08 Jun 2024	11 Jun 2023	26 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	1	3
Chromium	ppm	ASTM D5185m	>2	0	0	0
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	>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		<1	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	<1	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		<1	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		3	0	0
Sulfur	ppm	ASTM D5185m	50	5	52	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.01	0.002	0.003	0.003
ppm Water	ppm	ASTM D6304	>100	22	33.3	30.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	4420	2324	4299
Particles >6µm		ASTM D7647	>2500	850	461	717
Particles >14µm		ASTM D7647	>320	8	17	14
Particles >21µm		ASTM D7647	>80	2	3	3
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/10	18/16/11	19/17/11
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

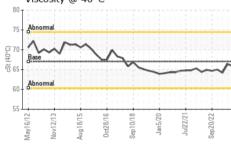


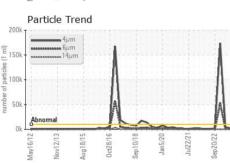
OIL ANALYSIS REPORT









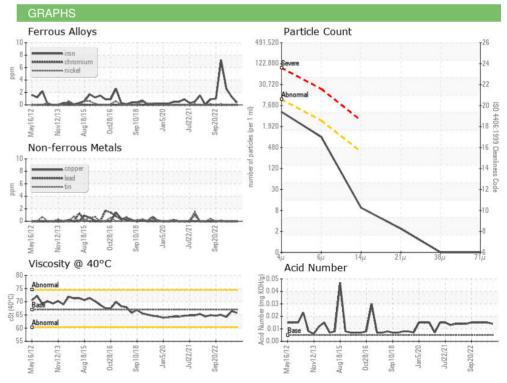


	NONE
White Metal scalar *Visual NONE NONE NONE	NONE
Yellow Metal scalar *Visual NONE NONE NONE	NONE
Precipitate scalar *Visual NONE NONE NONE	NONE
Silt scalar *Visual NONE NONE NONE	NONE
Debris scalar *Visual NONE NONE NONE	NONE
Sand/Dirt scalar *Visual NONE NONE NONE	NONE
Appearance scalar *Visual NORML 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 PROPER	TILS	method	ilmit/base		nistory i	nistory2
Visc @ 40°C	cSt	ASTM D445	67	65.8	66.4	64.2

SAMPLE IMAGES	method		
Color		,	









Certificate 12367

Laboratory

Sample No. Lab Number : 06202825

: USP244712 Unique Number : 11070286 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Jun 2024

Tested : 11 Jun 2024 Diagnosed : 11 Jun 2024 - Doug Bogart

MICHAEL FOODS - LOGAN VIEW FACILITY

101A N OAK ST WAKEFIELD, NE US 68784

Contact: DEREK JENSEN

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) T: (402)287-5272 F: