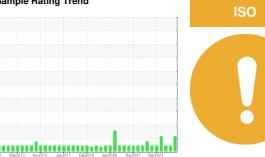


OIL ANALYSIS REPORT

Sample Rating Trend



2146-C-5 N SULLAIR 250 (S/N 007-000000293)

Refrigeration Compressor

USPI 1009-68 SC (45 GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

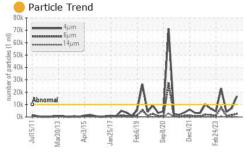
Fluid Condition

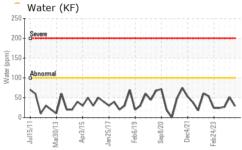
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

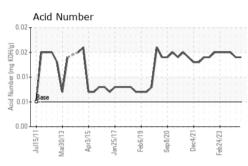
d011 Maz013 Apd015 Jan2017 Feb2019 Sep2020 Dec2021 Feb2023									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		USP0006139	USP0005011	USP0002069			
Sample Date		Client Info		13 Mar 2024	09 Dec 2023	13 Sep 2023			
Machine Age	hrs	Client Info		0	0	27101			
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	<1	0			
Chromium	ppm	ASTM D5185m	>2	0	<1	<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	<1			
Lead	ppm	ASTM D5185m	>2	0	0	<1			
Copper	ppm	ASTM D5185m	>8	0	0	0			
Tin	ppm	ASTM D5185m	>4	<1	0	<1			
Vanadium	ppm	ASTM D5185m		0	0	<1			
Cadmium	ppm	ASTM D5185m		0	0	<1			
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	<1			
Magnesium	ppm	ASTM D5185m		0	0	0			
Calcium	ppm	ASTM D5185m		<1	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	2	1	3			
Sodium	ppm	ASTM D5185m		0	0	1			
Potassium	ppm	ASTM D5185m	>20	0	<1	3			
Water	%	ASTM D6304	>0.01	0.003	0.005	0.003			
ppm Water	ppm	ASTM D6304	>100	29	51	26.8			
FLUID CLEANLIN	ESS _	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647	>10000	16748	7040	4043			
Particles >6µm		ASTM D7647	>2500	2626	1522	869			
Particles >14µm		ASTM D7647	>320	71	47	35			
Particles >21µm		ASTM D7647	>80	10	7	6			
Particles >38µm		ASTM D7647	>20	0	0	0			
Particles >71µm		ASTM D7647		0	0	0			
Oil Cleanliness		ISO 4406 (c)	>20/18/15	2 1/19/13	20/18/13	19/17/12			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2			
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.015			

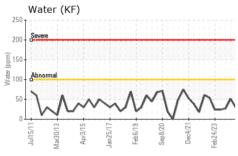


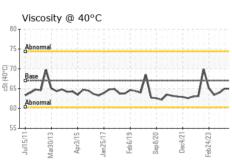
OIL ANALYSIS REPORT











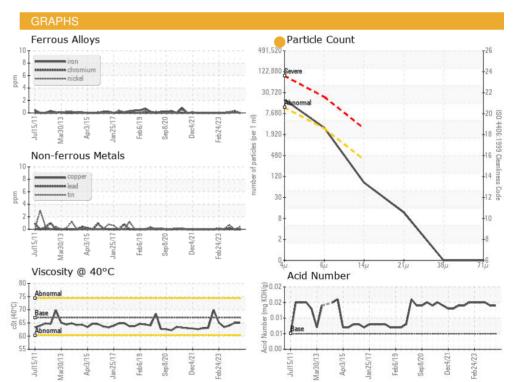
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	65.0	65.0	64.0

SAMPLE IMAGES

Color

Bottom









Certificate L2367

Laboratory Sample No. Lab Number : 06123720 Unique Number : 10937871

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0006139

Received **Tested** Diagnosed

: 20 Mar 2024 : 25 Mar 2024 : 25 Mar 2024 - Jonathan Hester

SMITHFIELD - DENISON - SMIDENIOW

800 INDUSTRIAL ROAD DENISON, IA

US 51442 Contact: SERVICE MANAGER

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: (712)263-7414 F: (712)263-7314