

OIL ANALYSIS REPORT

Sample Rating Trend



2146-C-11 N Sullair 500 (S/N 007-96000271)

Refrigeration Compressor

USPI 1009-68 SC (--- 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.

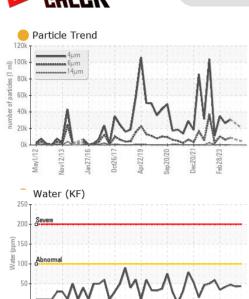
Fluid Condition

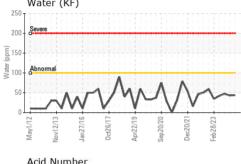
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

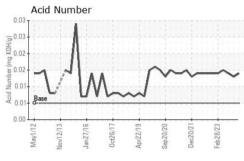
1012 Novibil 3 Jan 2016 Octol 17 Audit 19 Seption Octol 14 Audit 14							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		USP0006152	USP0004997	USP0002048	
Sample Date		Client Info		19 Mar 2024	15 Jan 2024	08 Sep 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				ATTENTION	ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>8	1	4	2	
Chromium	ppm	ASTM D5185m	>2	0	<1	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	<1	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	0	<1	
Magnesium	ppm	ASTM D5185m		0	0	<1	
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	16	
CONTAMINANTS		method	limit/base		history1	history2	
Silicon	ppm	ASTM D5185m	>15	<1	<1 0	<1 1	
Sodium	ppm	ASTM D5185m	00	0			
Potassium	ppm	ASTM D5185m		0	<1	0	
Water	%	ASTM D6304	>0.01	0.004	0.004	0.004	
ppm Water	ppm	ASTM D6304	>100	44	43	47.2	
FLUID CLEANLIN	ESS	method	limit/base		history1	history2	
Particles >4µm		ASTM D7647		21152		30765	
Particles >6µm		ASTM D7647		4887		▲ 8694	
Particles >14µm		ASTM D7647	>320	156		312	
Particles >21µm		ASTM D7647	>80	20		49	
Particles >38µm		ASTM D7647	>20	0		1	
Particles >71μm		ASTM D7647	>4	0		0	
Oil Cleanliness		ISO 4406 (c)	>/18/15	22/19/14		<u>22/20/15</u>	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.013	0.014	

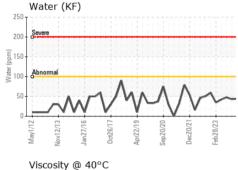


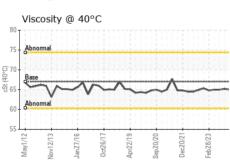
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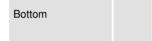




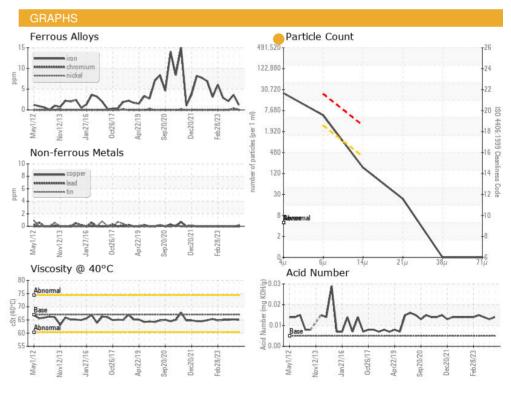
VISUAL						
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*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 PROPERT	IES					
Visc @ 40°C	cSt	ASTM D445	67	65.0	65.2	65.0

CAMPLE MAAGE						
Visc @ 40°C	cSt	ASTM D445	67	65.0	65.2	65.0

Color









Certificate L2367

Laboratory Sample No. Lab Number : 06123714 Unique Number: 10937865

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0006152

Received **Tested**

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

SMITHFIELD - DENISON - SMIDENIOW 800 INDUSTRIAL ROAD

DENISON, IA US 51442 Contact: SERVICE MANAGER

Test Package : IND 2 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) F: (712)263-7314

T: (712)263-7414