

OIL ANALYSIS REPORT

2146-C-7 6CYL VILTER NORTH (S/N 007-00000293) Component

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

DIAGNOSIS

A Recommendation

Resample at the next service interval to monitor.

Wear

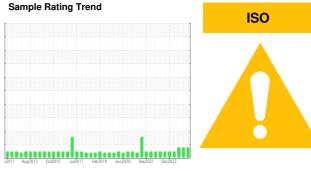
All component wear rates are normal.

Contamination

There is a high 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.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0005009	USP0002036	USP250699
Sample Date		Client Info		01 Dec 2023	05 Sep 2023	14 Jun 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				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	1	<1	0
Chromium	ppm	ASTM D5185m	>2	<1	<1	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	<1	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	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		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	<1	0
Sodium	ppm	ASTM D5185m		0	1	0
Potassium	ppm	ASTM D5185m	>20	<1	3	1
Water	%	ASTM D6304	>0.01	0.003	0.002	0.001
ppm Water	ppm	ASTM D6304	>100	26	17.0	6.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		65718	45507	17958
Particles >6µm		ASTM D7647	>2500	<u> </u>	6 735	2 758
Particles >14µm		ASTM D7647	>320	242	83	48
Particles >21µm		ASTM D7647	>80	30	12	5
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	4 23/21/15	▲ 23/20/14	1 /19/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.016



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method

*Visual

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method

ASTM D445

method

G115/7

en15/2

Sep15/21

Dec5/22

: 17 Jan 2024

: Doug Bogart

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

limit/base

>0.01

67

current

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

curren

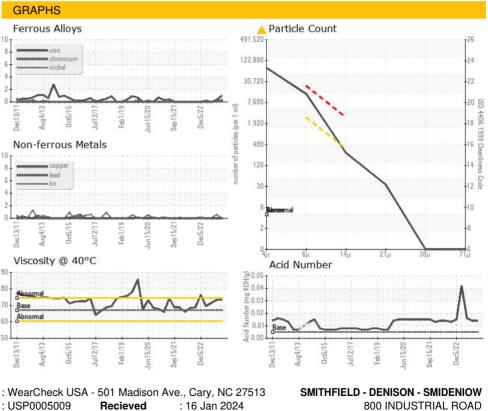
current

NEG

NEG

73.4





history1

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

history

historv1

NEG

NEG

73.2

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history2

historv2

NEG

NEG

71.4

800 INDUSTRIAL ROAD DENISON, IA US 51442 Contact: SERVICE MANAGER

: 10832558 Test Package : IND 2 Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

:06061176

Aug4/13 Oct5/15

: USP0005009

50

Dec13/11

* - 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)

71/2/11/ Ph1/19

Recieved

Diagnosed

Diagnostician

Sep 15/21

Pr5/77

Laboratory

Sample No.

Lab Number

Unique Number

Abnorma

60