

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

CHAMPION D243426

Component Screw Compressor Fluid

CHAMPION ROTOR LUBE 4000 (--- GAL)

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 acceptable for the time in service.

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		DFP0000033		
Sample Date		Client Info		11 Apr 2024		
Machine Age	hrs	Client Info		54		
Oil Age	hrs	Client Info		54		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	2		
Chromium	ppm	ASTM D5185m	>4	<1		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>5	2		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>30	1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		81		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		5		
Calcium	ppm	ASTM D5185m		5		
Phosphorus	ppm	ASTM D5185m		504		
Zinc	ppm	ASTM D5185m		87		
Sulfur	ppm	ASTM D5185m		765		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4		
Sodium	ppm	ASTM D5185m		13		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>0.1	0.001		
ppm Water	ppm	ASTM D6304	>1000	3		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	6800		
Particles >6µm		ASTM D7647	>2500	736		
Particles >14µm		ASTM D7647	>320	20		
Particles >21µm		ASTM D7647	>80	7		
Particles >38µm		ASTM D7647	>20	1		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/17/11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35		



12000

10000

800 Water (ppm)

600

400

2000

12 Ê¹⁰

nber of particles (1 8

6k 41

0

12000

100 800 Water (ppm)

600 400

200

52

50

48

() 46 لكي 44

42

40

38

12

f particles (1 ml)

÷

8k

6

4k

2

n

OIL ANALYSIS REPORT

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

48.0

Particle Count

Acid Number

491,52

122,88

30 72 7,68

480

120

31

(B)

HOX 0.30

0.20

0.1 Acid

0.00

: 10 May 2024

: 13 May 2024

: 14 May 2024 - Angela Borella

74

Apr1

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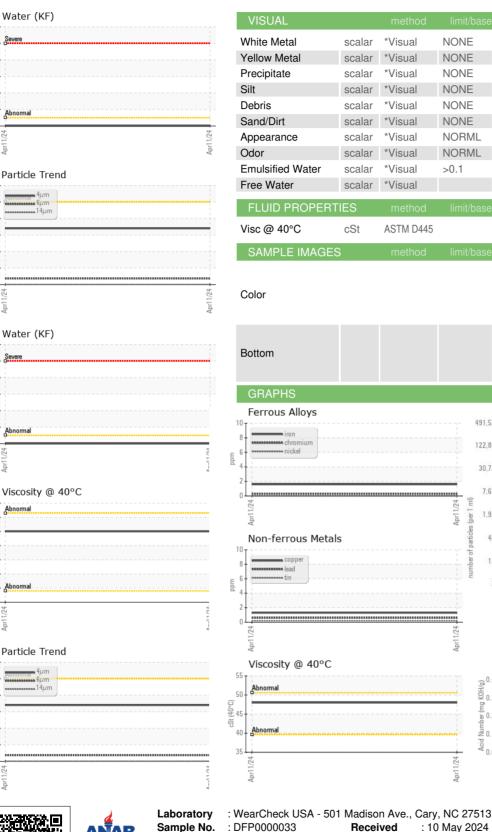
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SD NATIONAL GUARD CSMS #1 1215 INDUSTRIAL RD

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MITCHELL, SD US 57301 Contact: RYAN

Test Package : PLANT (Additional Tests: KF) To discuss this sample report, contact Customer Service at 1-833-307-5970.

Sample No.

Lab Number : 06175464

Unique Number : 11021517

* - 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)

Received

Diagnosed

Tested

Report Id: SDNMIT [WUSCAR] 06175464 (Generated: 05/14/2024 13:57:07) Rev: 1

Certificate 12367

Contact/Location: RYAN ? - SDNMIT Page 2 of 2

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