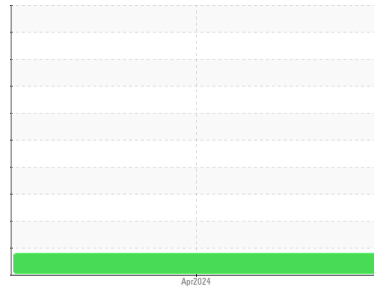




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

D243427

Component

Screw Compressor

Fluid

CHAMPION ROTOR LUBE 4000 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		DFP0000034	---	---
Sample Date	Client Info		11 Apr 2024	---	---
Machine Age	hrs	Client Info	488	---	---
Oil Age	hrs	Client Info	488	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ATTENTION	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >60	1	---	---
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	79	---	---
Molybdenum	ppm	ASTM D5185m	0	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m	7	---	---
Calcium	ppm	ASTM D5185m	5	---	---
Phosphorus	ppm	ASTM D5185m	512	---	---
Zinc	ppm	ASTM D5185m	34	---	---
Sulfur	ppm	ASTM D5185m	731	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	3	---	---
Sodium	ppm	ASTM D5185m	5	---	---
Potassium	ppm	ASTM D5185m >20	2	---	---
Water	%	ASTM D6304 >0.1	0.001	---	---
ppm Water	ppm	ASTM D6304 >1000	9	---	---

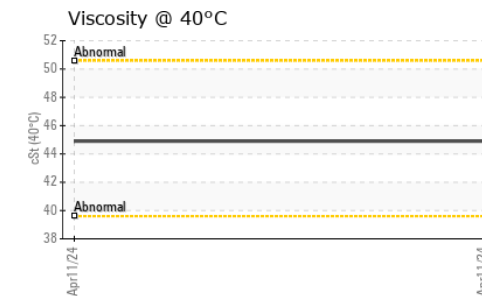
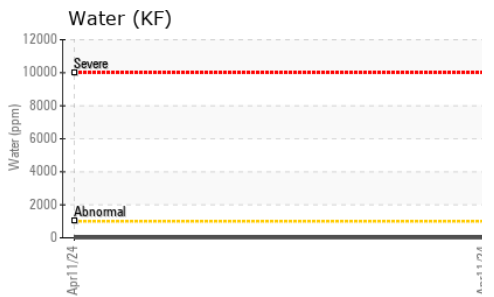
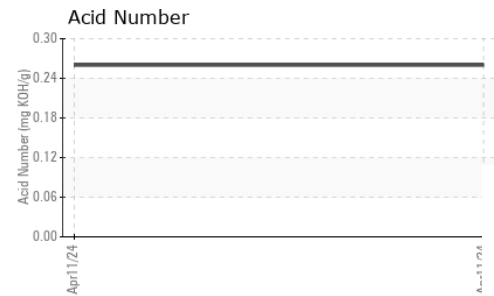
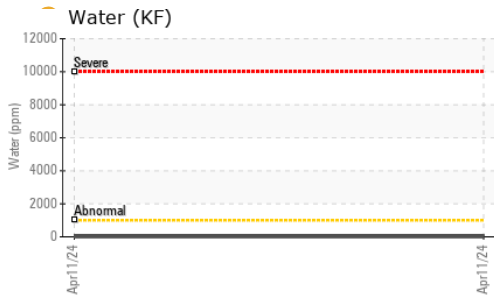
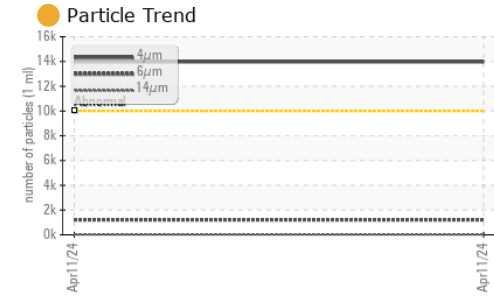
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	13974	---	---
Particles >6µm	ASTM D7647	>2500	1211	---	---
Particles >14µm	ASTM D7647	>320	33	---	---
Particles >21µm	ASTM D7647	>80	8	---	---
Particles >38µm	ASTM D7647	>20	0	---	---
Particles >71µm	ASTM D7647	>4	0	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	21/17/12	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.26	---	---


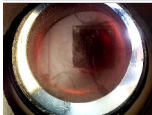
OIL ANALYSIS REPORT



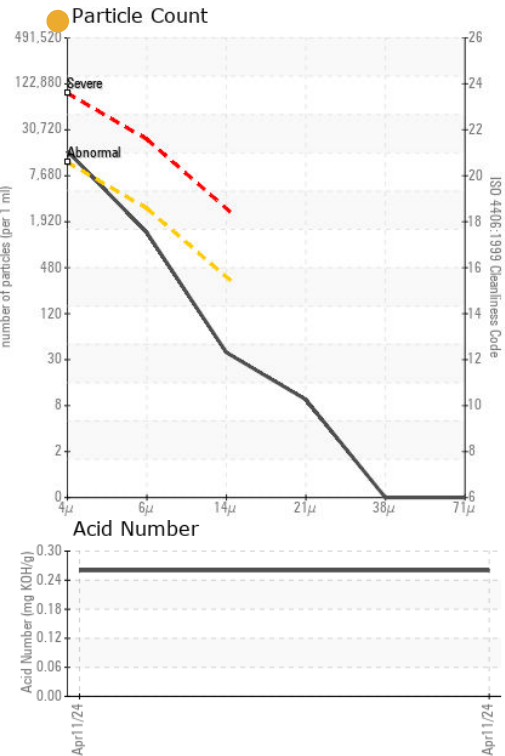
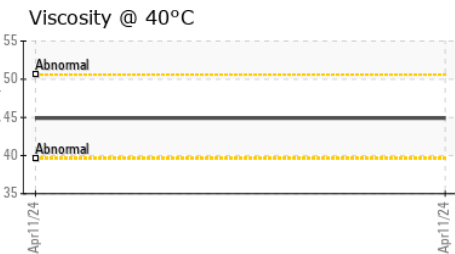
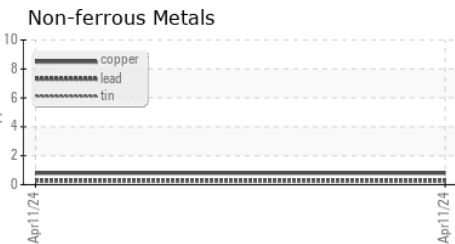
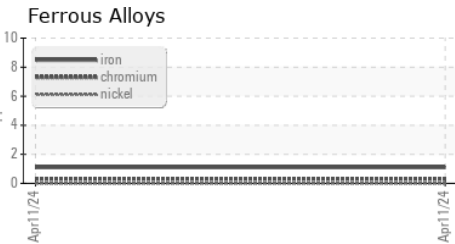
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.9	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DFP0000034
Lab Number : 06175465
Unique Number : 11021518
Test Package : PLANT (Additional Tests: KF)

Received : 10 May 2024
Tested : 13 May 2024
Diagnosed : 14 May 2024 - Angela Borella

SD NATIONAL GUARD
 CSMS #1 1215 INDUSTRIAL RD
 MITCHELL, SD
 US 57301
 Contact: RYAN

To discuss this sample report, contact Customer Service at 1-833-307-5970.

* - 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)