



OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
EATON SMIP COMPRESSOR 2 (S/N EC00003936)
 Component
Screw Compressor
 Fluid
{not provided} (--- 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 no indication of any contamination 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		WC0915215	---	---
Sample Date	Client Info		08 Apr 2024	---	---
Machine Age	hrs	Client Info	575	---	---
Oil Age	hrs	Client Info	575	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		22	---	---
Iron	ppm	ASTM D5185m >60	<1	---	---
Chromium	ppm	ASTM D5185m >4	0	---	---
Nickel	ppm	ASTM D5185m	5	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m >5	0	---	---
Lead	ppm	ASTM D5185m >10	0	---	---
Copper	ppm	ASTM D5185m >30	<1	---	---
Tin	ppm	ASTM D5185m >15	<1	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	0	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m	<1	---	---
Calcium	ppm	ASTM D5185m	38	---	---
Phosphorus	ppm	ASTM D5185m	414	---	---
Zinc	ppm	ASTM D5185m	33	---	---
Sulfur	ppm	ASTM D5185m	663	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	4	---	---
Sodium	ppm	ASTM D5185m	<1	---	---
Potassium	ppm	ASTM D5185m >20	0	---	---
Water	%	ASTM D6304 >0.1	0.003	---	---
ppm Water	ppm	ASTM D6304 >1000	32	---	---

FLUID CLEANLINESS

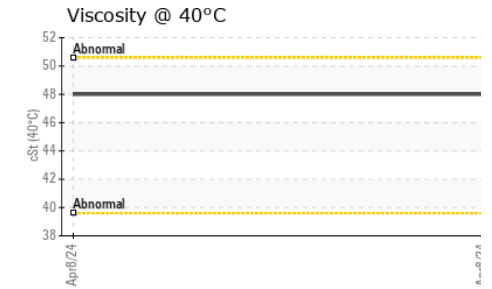
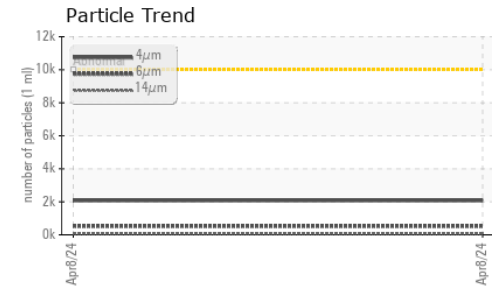
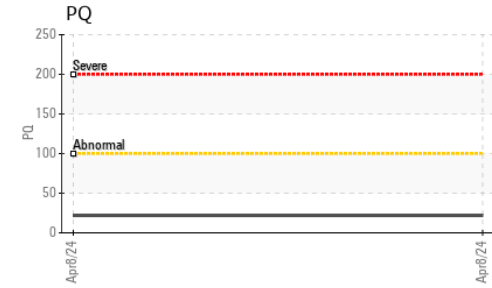
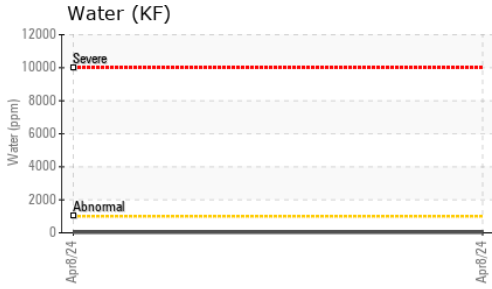
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	2073	---	---
Particles >6µm	ASTM D7647	>2500	526	---	---
Particles >14µm	ASTM D7647	>320	69	---	---
Particles >21µm	ASTM D7647	>80	19	---	---
Particles >38µm	ASTM D7647	>20	1	---	---
Particles >71µm	ASTM D7647	>4	0	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	18/16/13	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.17	---	---



OIL ANALYSIS REPORT



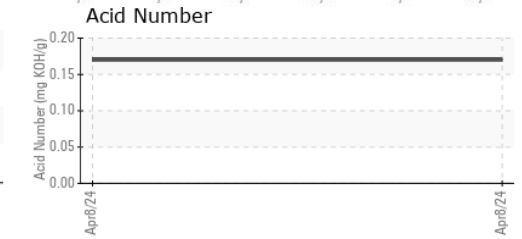
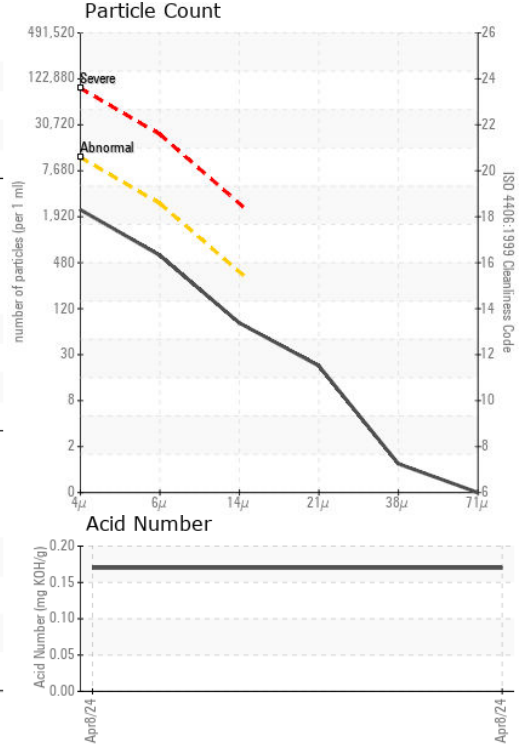
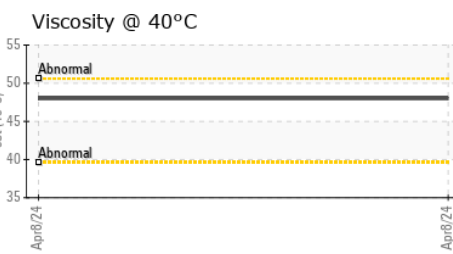
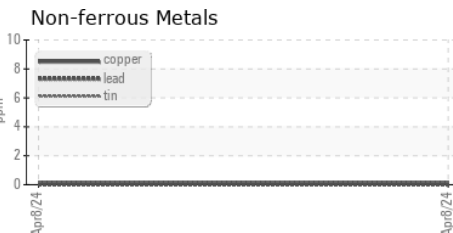
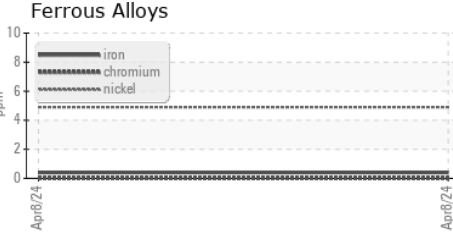
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	48.0	---	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0915215
Lab Number : 06144215
Unique Number : 10969023
Test Package : PLANT

Received : 10 Apr 2024
Tested : 11 Apr 2024
Diagnosed : 12 Apr 2024 - Angela Borella

ZMAX OIL - CHEM RESEARCH CORP
 5265 Z-MAX BLVD
 HARRISBURG, NC
 US 28075

Contact: DAVID COUGHTRY
 dcoughtry@zmax.com
 T: (888)645-1101

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)