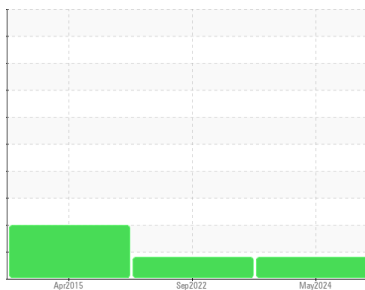




OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT



Area

SYNOIL 8K

Machine Id

CHICAGO PNEUMATIC CAI246429 - PRIMA EXPRESS

Component

Compressor

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of visible silt present in the sample.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			UCZ06184431	UCZ05650465	UCZ03734478
Sample Date	Client Info			02 May 2024	08 Sep 2022	24 Apr 2015
Machine Age	hrs	Client Info		5176	4181	1909
Oil Age	hrs	Client Info		2000	0	1909
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	ATTENTION

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	21	41
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m		1	0	12
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	5	7
Lead	ppm	ASTM D5185m	>25	<1	3	3
Copper	ppm	ASTM D5185m	>50	14	67	89
Tin	ppm	ASTM D5185m	>15	1	<1	0
Antimony	ppm	ASTM D5185m		---	---	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

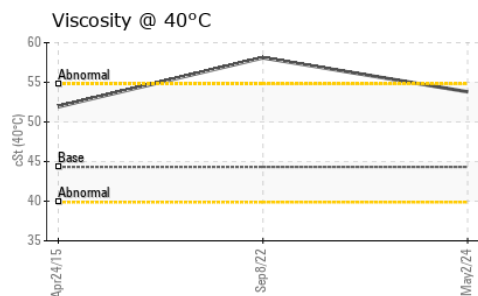
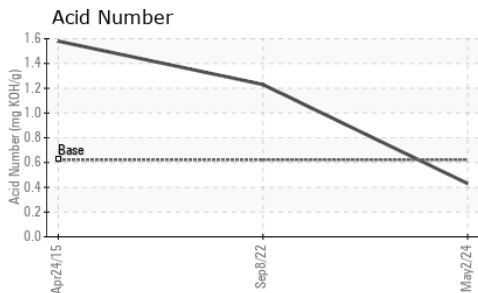
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0.3	0	0	0
Barium	ppm	ASTM D5185m	0.3	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m	0.9	<1	2	3
Magnesium	ppm	ASTM D5185m	0.2	6	43	61
Calcium	ppm	ASTM D5185m	0.1	6	11	183
Phosphorus	ppm	ASTM D5185m	429	589	223	411
Zinc	ppm	ASTM D5185m	0.3	232	818	1022
Sulfur	ppm	ASTM D5185m	1336	803	3264	11913

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	6
Sodium	ppm	ASTM D5185m		9	24	25
Potassium	ppm	ASTM D5185m	>20	2	4	<1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.622	0.43	1.23	1.58



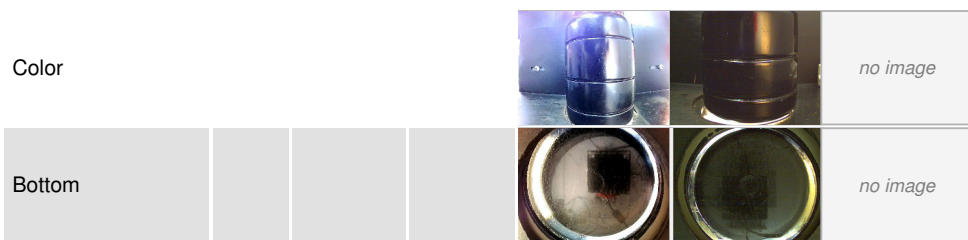
OIL ANALYSIS REPORT



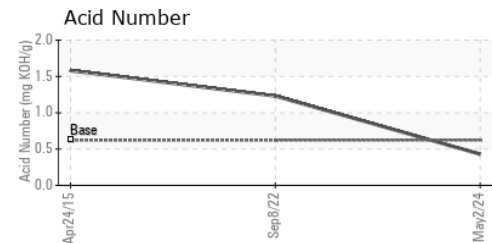
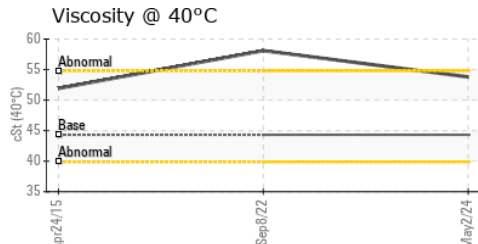
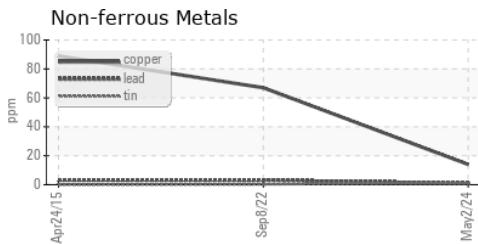
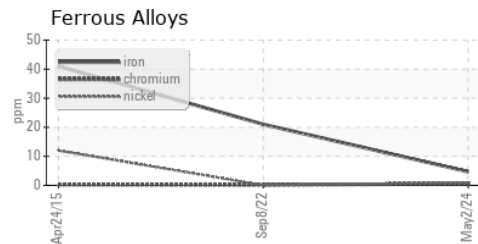
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.32	53.8	58.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCZ06184431 **Received** : 20 May 2024
Lab Number : 06184431 **Tested** : 21 May 2024
Unique Number : 11035757 **Diagnosed** : 22 May 2024 - Don Baldrige
Test Package : IND 2

ZORN COMPRESSOR EQUIPMENT
 227 AMBROSIO DR, SUITE A
 GURNEE, IL
 US 60031
 Contact: Rachel Pesnikov
 rachel.pesnikov@zornair.com
 T: (847)599-1333
 F: x:

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)