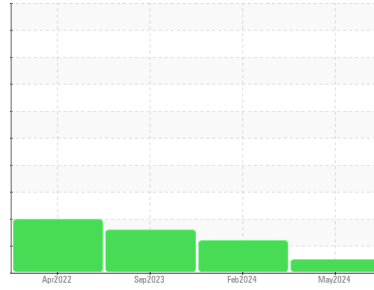




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
1301 (S/N API834666)
 Component
Air Compressor
 Fluid
USPI AIR 46 (--- GAL)

DIAGNOSIS

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 suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	USPM36405	USPM30319	USPM29800
Sample Date	Client Info	29 May 2024	28 Feb 2024	25 Sep 2023
Machine Age	hrs Client Info	0	0	28722
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	ATTENTION	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >70	<1	0	0
Chromium	ppm ASTM D5185m >15	<1	0	0
Nickel	ppm ASTM D5185m >6	<1	<1	0
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >10	1	<1	0
Lead	ppm ASTM D5185m >20	<1	<1	0
Copper	ppm ASTM D5185m >80	<1	0	0
Tin	ppm ASTM D5185m >15	<1	<1	0
Vanadium	ppm ASTM D5185m	<1	<1	0
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	0	0	0
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 0	<1	0	0
Manganese	ppm ASTM D5185m	0	0	0
Magnesium	ppm ASTM D5185m 0	<1	0	0
Calcium	ppm ASTM D5185m 0	7	3	1
Phosphorus	ppm ASTM D5185m 1	24	24	27
Zinc	ppm ASTM D5185m 0	17	13	13
Sulfur	ppm ASTM D5185m 0	0	73	77

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >12	2	<1	<1
Sodium	ppm ASTM D5185m	<1	<1	0
Potassium	ppm ASTM D5185m >20	1	<1	0
Water	% ASTM D6304 >0.2	0.018	0.021	0.010
ppm Water	ppm ASTM D6304 >2000	189	213	106.9

FLUID CLEANLINESS

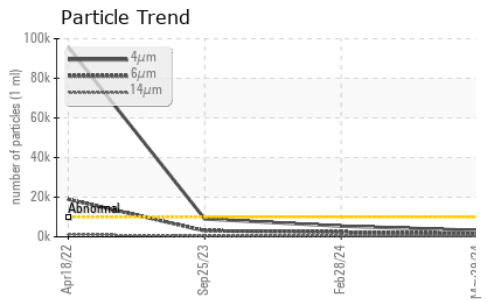
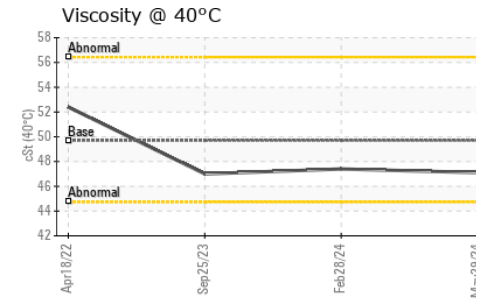
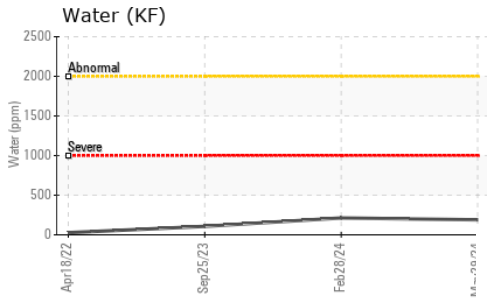
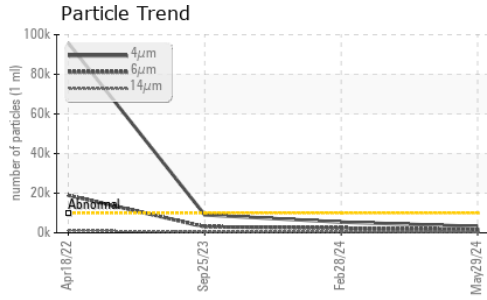
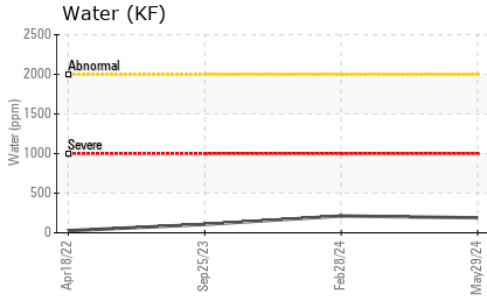
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	3216	5406	9035
Particles >6µm	ASTM D7647 >2500	1515	2412	3026
Particles >14µm	ASTM D7647 >320	286	509	398
Particles >21µm	ASTM D7647 >80	60	141	107
Particles >38µm	ASTM D7647 >20	3	8	5
Particles >71µm	ASTM D7647 >4	1	1	1
Oil Cleanliness	ISO 4406 (c) >20/18/15	19/18/15	20/18/16	20/19/16

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.05	0.26	0.25	0.28



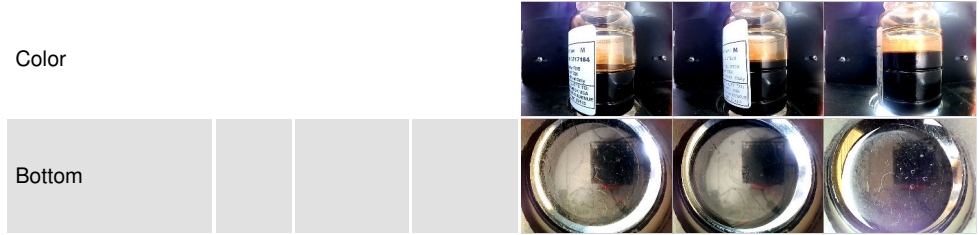
OIL ANALYSIS REPORT



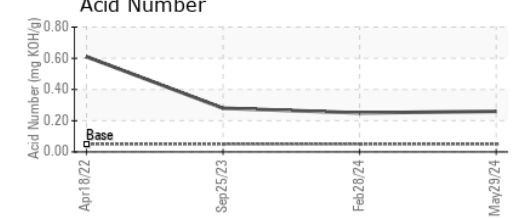
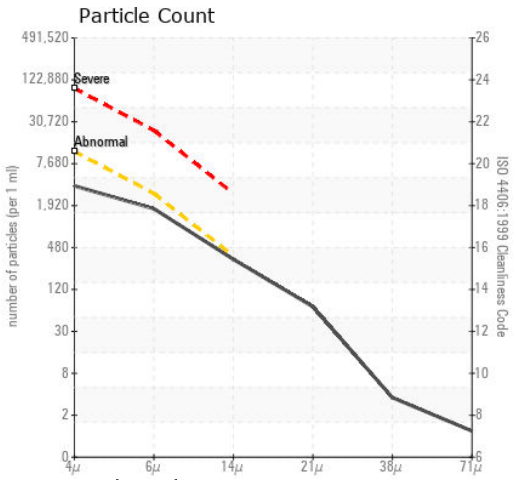
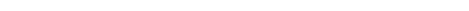
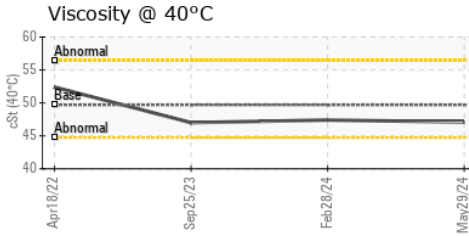
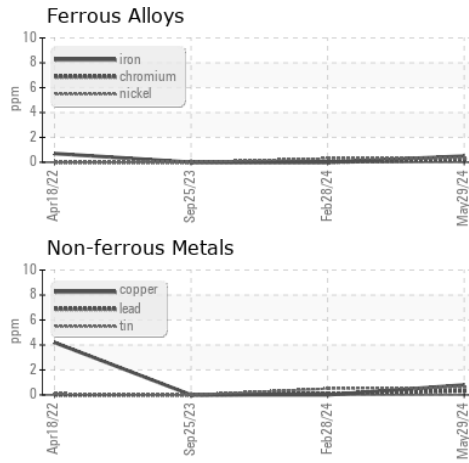
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	49.7	47.1	47.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : USPM36405
 Lab Number : 06198216
 Unique Number : 11060339
 Test Package : IND 2

Received : 03 Jun 2024
 Tested : 06 Jun 2024
 Diagnosed : 06 Jun 2024 - Doug Bogart

CARGILL FEED & NUTRITION - MILTON
 1425 E HIGH ST
 MILTON, WI
 US 53563

Contact: Sean Bertrand
 sean_bertrand@cargill.com

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)

T:
F: