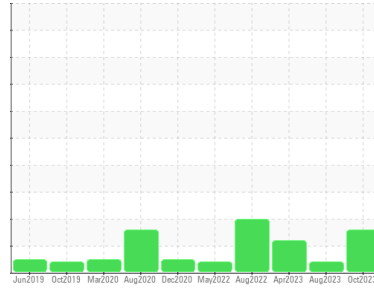




PROBLEM SUMMARY

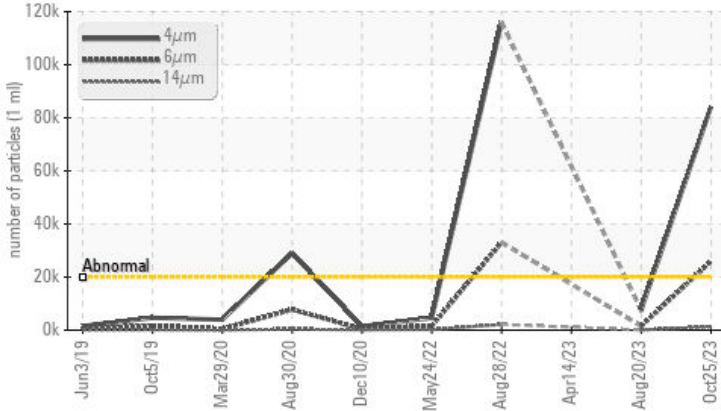
Sample Rating Trend



Machine Id
INGERSOLL RAND AC 4 (S/N CK6129U04118)
 Component
Air Compressor
 Fluid
INGERSOLL-RAND ULTRA FG (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ATTENTION	ABNORMAL
Particles >6µm	ASTM D7647	>2500	▲ 25892	1522	---
Particles >14µm	ASTM D7647	>320	▲ 1264	45	---
Particles >21µm	ASTM D7647	>80	▲ 354	8	---
Oil Cleanliness	ISO 4406 (c)	>21/18/15	▲ 24/22/17	20/18/13	---

Customer Id: PERPERUSP
 Sample No.: USP0002900
 Lab Number: 05994411
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

20 Aug 2023 Diag: Doug Bogart

VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is higher than normal. Confirmed. The AN level is acceptable for this fluid.

view report



14 Apr 2023 Diag: Doug Bogart

SEDIMENT



We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a moderate amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



28 Aug 2022 Diag: Doug Bogart

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

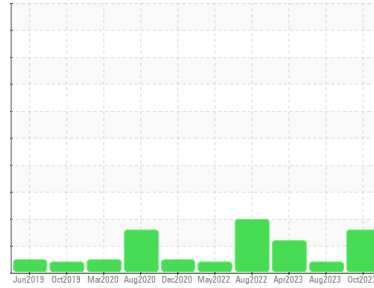
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
INGERSOLL RAND AC 4 (S/N CK6129U04118)

Component
Air Compressor

Fluid
INGERSOLL-RAND ULTRA FG (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

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		USP0002900	USP0000503	USP245948
Sample Date	Client Info		25 Oct 2023	20 Aug 2023	14 Apr 2023
Machine Age	hrs	Client Info	49018	0	45743
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ATTENTION	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	1	0	3
Chromium	ppm	ASTM D5185m >4	<1	0	0
Nickel	ppm	ASTM D5185m >4	0	0	0
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	<1	0	0
Lead	ppm	ASTM D5185m >20	0	0	0
Copper	ppm	ASTM D5185m >40	<1	<1	1
Tin	ppm	ASTM D5185m >5	0	0	0
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	20	22	34
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	0	0
Magnesium	ppm	ASTM D5185m	0	<1	0
Calcium	ppm	ASTM D5185m	0	1	6
Phosphorus	ppm	ASTM D5185m	406	213	134
Zinc	ppm	ASTM D5185m	20	0	0
Sulfur	ppm	ASTM D5185m	320	321	279

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	0	<1	<1
Sodium	ppm	ASTM D5185m	5	16	11
Potassium	ppm	ASTM D5185m >20	0	2	<1
Water	%	ASTM D6304 >0.6	0.003	0.038	0.062
ppm Water	ppm	ASTM D6304 >6000	32.4	388.8	621.9

FLUID CLEANLINESS

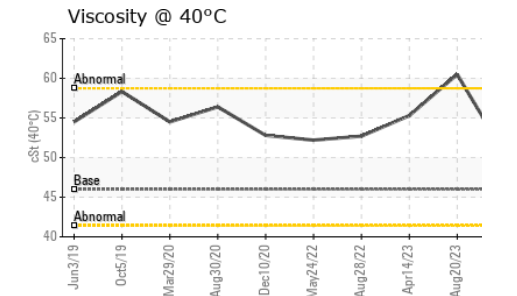
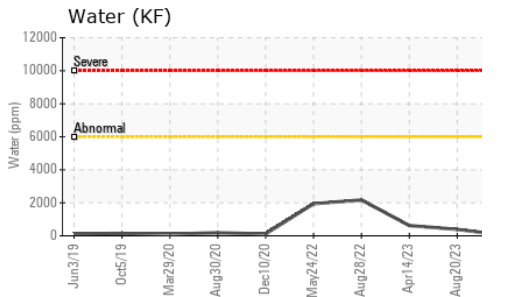
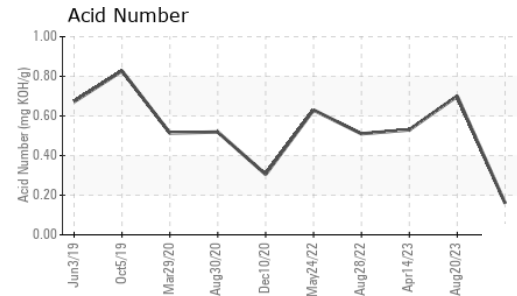
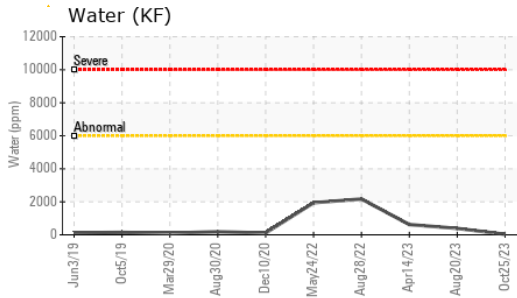
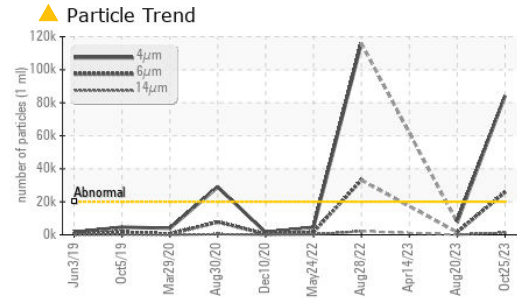
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	84164	7637	---
Particles >6µm	ASTM D7647	>2500	▲ 25892	1522	---
Particles >14µm	ASTM D7647	>320	▲ 1264	45	---
Particles >21µm	ASTM D7647	>80	▲ 354	8	---
Particles >38µm	ASTM D7647	>20	12	0	---
Particles >71µm	ASTM D7647	>4	1	0	---
Oil Cleanliness	ISO 4406 (c)	>21/18/15	▲ 24/22/17	20/18/13	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.16	0.70	0.53



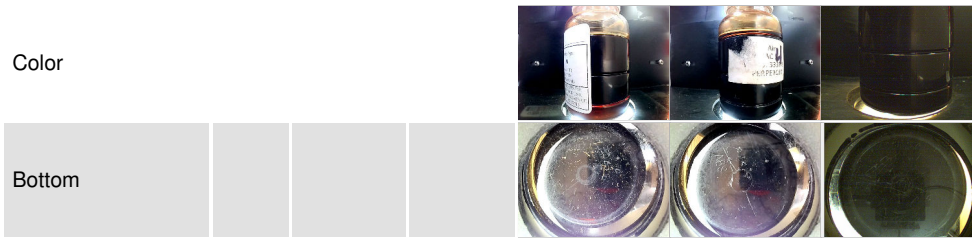
OIL ANALYSIS REPORT



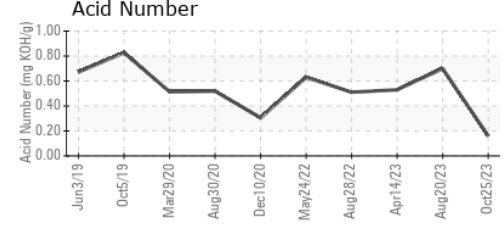
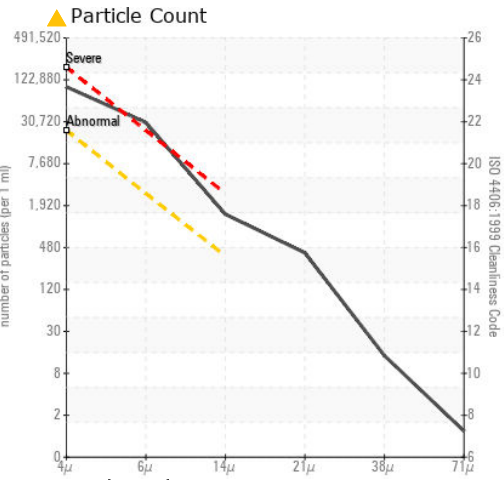
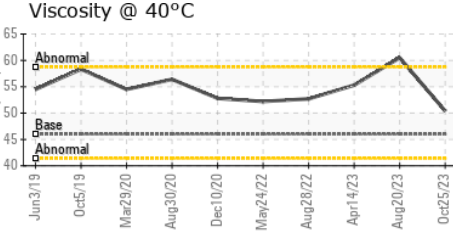
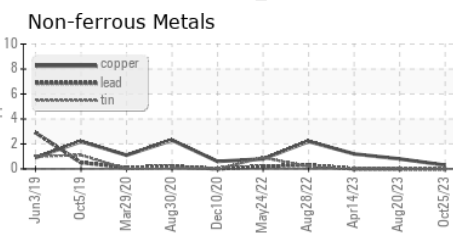
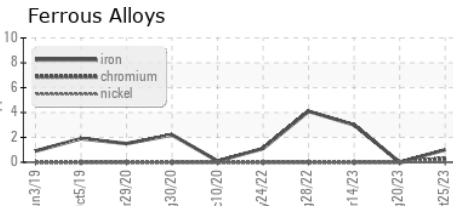
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ MODER
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46.0	50.4	▲ 60.5	55.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0002900 **Received** : 31 Oct 2023
Lab Number : 05994411 **Diagnosed** : 01 Nov 2023
Unique Number : 10722771 **Diagnostician** : Doug Bogart
Test Package : IND 2

PERDUE FARMS INC
 250 GEORGIA HWY 247 SPUR
 PERRY, GA
 US 31069
 Contact: JAMES EAST
 james.east@perdue.com
 T: (478)988-6048
 F:

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)