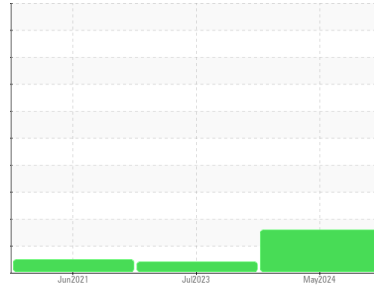




OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id

INGERSOLL RAND 1 (200HP) (S/N MOX1002320)

Component

Air Compressor

Fluid

USPI MAX FG AIR 46 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. 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 oil viscosity is higher than normal. The AN level is above the recommended limit. Confirmed.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	USPM36171	USPM27430	USP224227
Sample Date	Client Info	16 May 2024	23 Jul 2023	10 Jun 2021
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	NORMAL

WEAR METALS

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

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	1	0	6
Barium	ppm	ASTM D5185m 0	0	0	552
Molybdenum	ppm	ASTM D5185m 0	0	0	<1
Manganese	ppm	ASTM D5185m	0	0	<1
Magnesium	ppm	ASTM D5185m 0	0	1	6
Calcium	ppm	ASTM D5185m 0	0	0	5
Phosphorus	ppm	ASTM D5185m 0	0	0	85
Zinc	ppm	ASTM D5185m 0	0	0	16
Sulfur	ppm	ASTM D5185m 0	0	0	164

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<1	<1	0
Sodium	ppm	ASTM D5185m	2	<1	38
Potassium	ppm	ASTM D5185m >20	0	<1	4
Water	%	ASTM D6304 >0.6	0.033	0.009	0.579
ppm Water	ppm	ASTM D6304 >6000	337	93.2	5792.9

FLUID CLEANLINESS

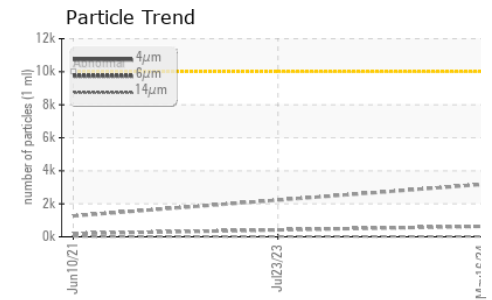
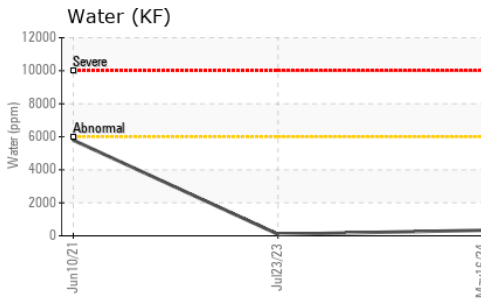
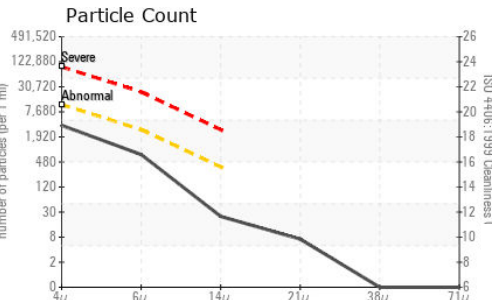
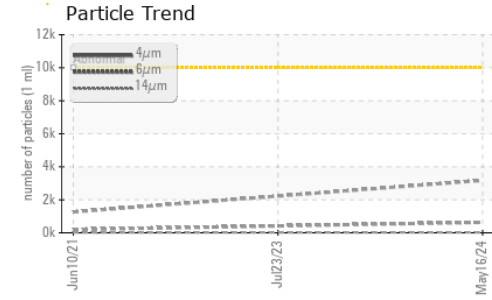
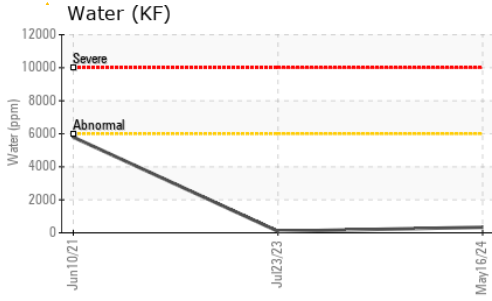
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	3180	---	1267
Particles >6µm	ASTM D7647 >2500	636	---	199
Particles >14µm	ASTM D7647 >320	21	---	13
Particles >21µm	ASTM D7647 >80	6	---	5
Particles >38µm	ASTM D7647 >20	0	---	0
Particles >71µm	ASTM D7647 >4	0	---	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	19/16/12	---	17/15/11

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.16	▲ 2.509	0.12	0.648



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	▲ HEAVY
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	45.8	▲ 56.7	50.0

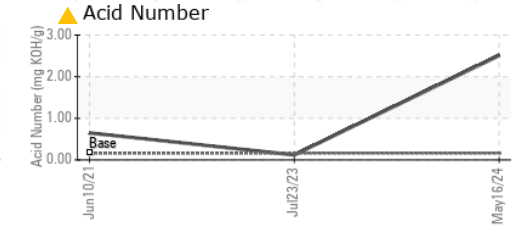
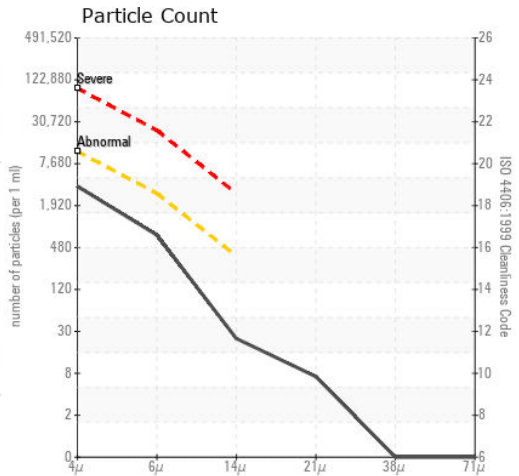
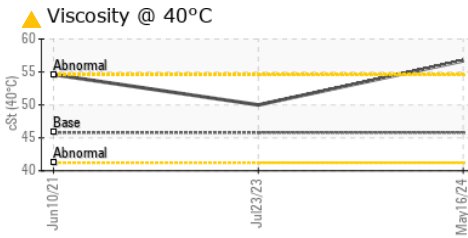
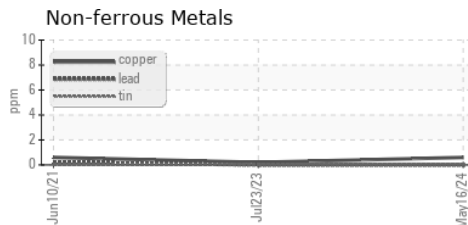
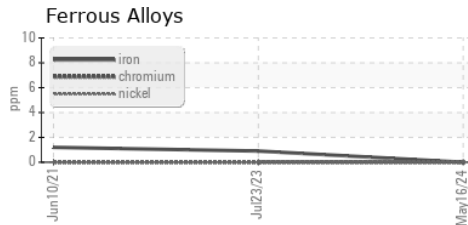
SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color



Bottom

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : USPM36171
 Lab Number : 06182866
 Unique Number : 11034192
 Test Package : IND 2

Received : 17 May 2024
 Tested : 24 May 2024
 Diagnosed : 24 May 2024 - Doug Bogart

TYSON-NORTH RICHLAND HILLS-USP
 6350 BLOWN CT
 NORTH RICHLAND HILLS, TX
 US 76180
 Contact: JOHN MORGAN

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: (817)514-3519

F: