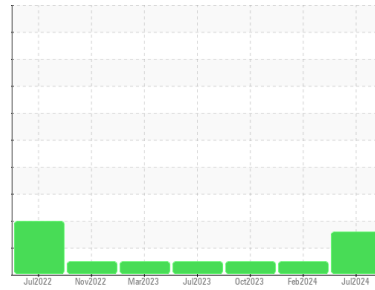




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

ELGI AIR 1 ELGI (S/N MTHL061542)

Component

Air Compressor

Fluid

USPI AIR 46 (--- QTS)

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	USPM37037	USPM30159	USPM29996
Sample Date	Client Info	14 Jul 2024	26 Feb 2024	12 Oct 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	NORMAL	NORMAL

WEAR METALS

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

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	0
Barium	ppm	ASTM D5185m 0	0	0
Molybdenum	ppm	ASTM D5185m 0	0	0
Manganese	ppm	ASTM D5185m	0	<1
Magnesium	ppm	ASTM D5185m 0	0	<1
Calcium	ppm	ASTM D5185m 0	0	1
Phosphorus	ppm	ASTM D5185m 1	0	<1
Zinc	ppm	ASTM D5185m 0	0	0
Sulfur	ppm	ASTM D5185m 0	6	20

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<1	0
Sodium	ppm	ASTM D5185m	<1	0
Potassium	ppm	ASTM D5185m >20	<1	<1
Water	%	ASTM D6304 >0.2	0.066	0.038
ppm Water	ppm	ASTM D6304 >2000	661	387

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	12016	2266	2507
Particles >6µm	ASTM D7647 >2500	6072	693	557
Particles >14µm	ASTM D7647 >320	552	46	46
Particles >21µm	ASTM D7647 >80	75	8	12
Particles >38µm	ASTM D7647 >20	3	0	0
Particles >71µm	ASTM D7647 >4	0	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	21/20/16	18/17/13	19/16/13

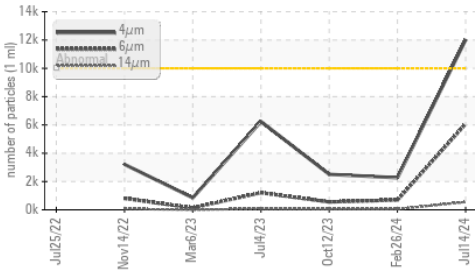
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.05	0.34	0.29

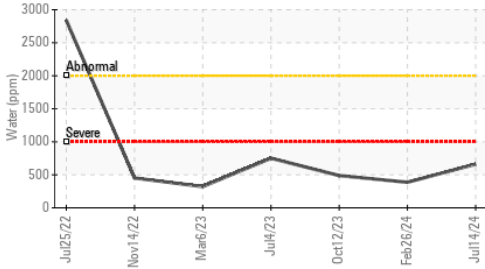


OIL ANALYSIS REPORT

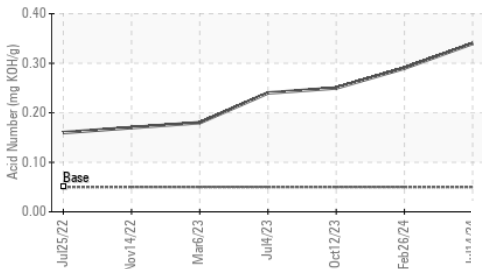
▲ Particle Trend



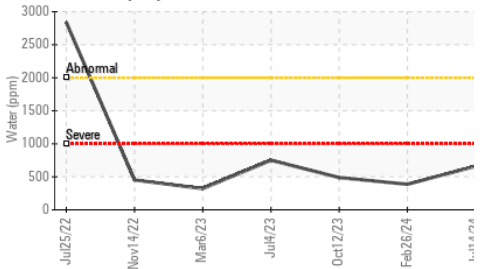
Water (KF)



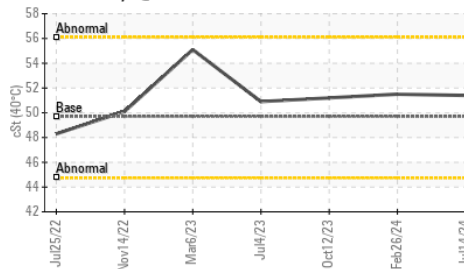
Acid Number



Water (KF)



Viscosity @ 40°C



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	51.4	51.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

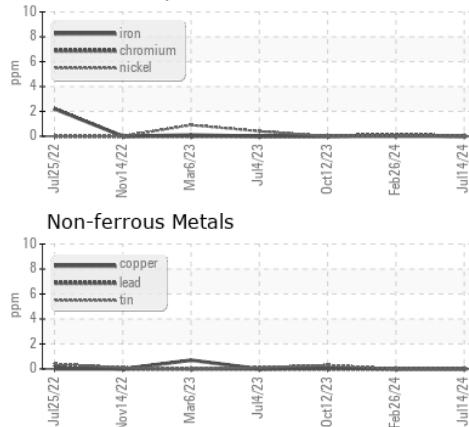


Bottom

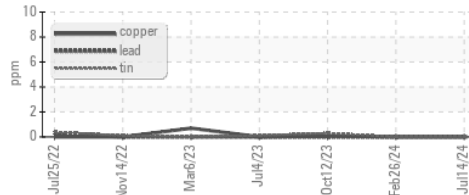


GRAPHS

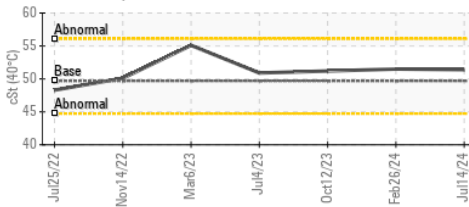
Ferrous Alloys



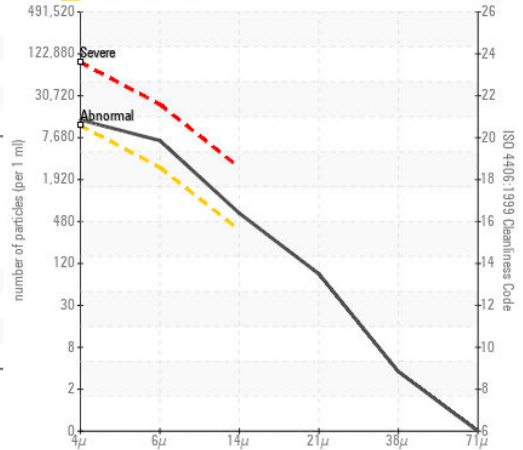
Non-ferrous Metals



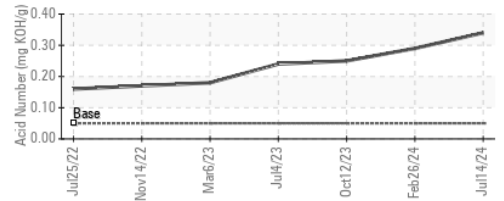
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM37037
Lab Number : 06236861
Unique Number : 11125695
Test Package : IND 2

TYSON - WATERLOO - USP CODE TYSWATPRO
 501 N Elk Run Road
 Waterloo, IA
 US 50703
 Contact: ED ALBERT

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)

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