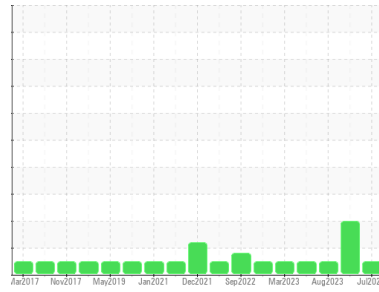




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**INGERSOLL RAND SS REP 125 AIR 1 (S/N F39700U06338)**  
 Component  
**Air Compressor**  
 Fluid  
**USPI MAX FG AIR 46 (--- QTS)**

## 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 component. The amount and size of particulates present in the system is 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			<b>USPM37988</b>	USPM30979	USPM30694
Sample Date	Client Info			<b>14 Jul 2024</b>	07 Feb 2024	10 Aug 2023
Machine Age	hrs	Client Info		<b>0</b>	0	7434
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>70	<b>2</b>	2	0
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>6	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>80	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	0	<b>0</b>	0	0
Zinc	ppm	ASTM D5185m	0	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m	0	<b>0</b>	10	2

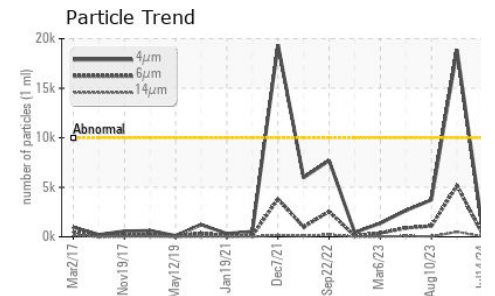
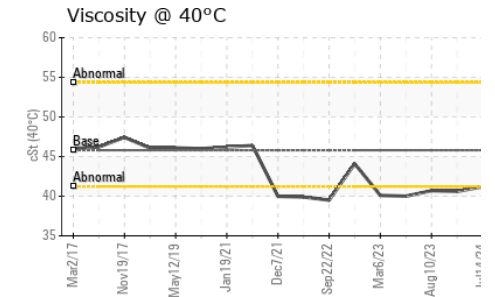
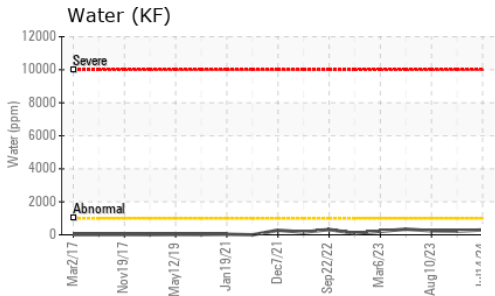
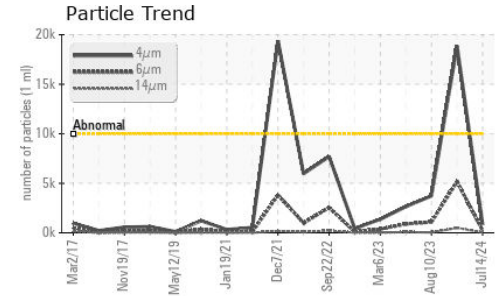
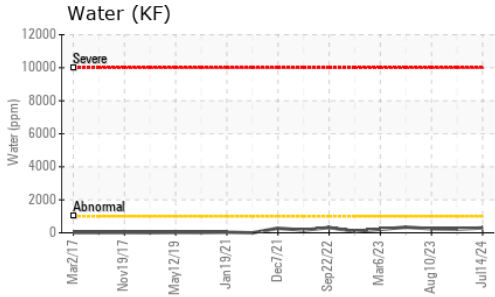
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>12	<b>&lt;1</b>	1	0
Sodium	ppm	ASTM D5185m		<b>2</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	<1
Water	%	ASTM D6304	>0.1	<b>0.029</b>	0.022	0.024
ppm Water	ppm	ASTM D6304	>1000	<b>299</b>	223	244

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>822</b>	● 18854	3730
Particles >6µm		ASTM D7647	>2500	<b>237</b>	▲ 5168	1095
Particles >14µm		ASTM D7647	>320	<b>23</b>	● 498	41
Particles >21µm		ASTM D7647	>80	<b>6</b>	● 159	11
Particles >38µm		ASTM D7647	>20	<b>0</b>	9	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>17/15/12</b>	▲ 21/20/16	19/17/13

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.16	<b>1.28</b>	1.36	1.10



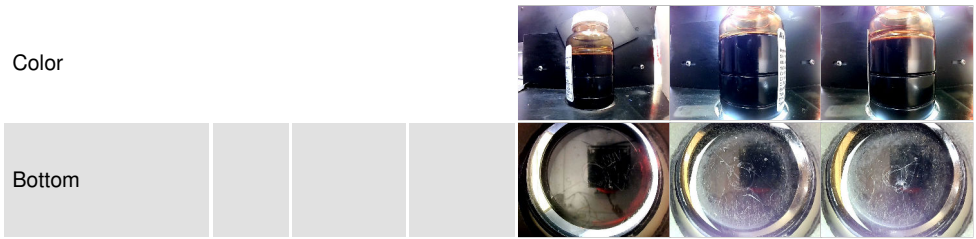
# OIL ANALYSIS REPORT



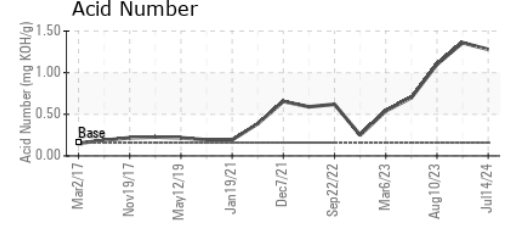
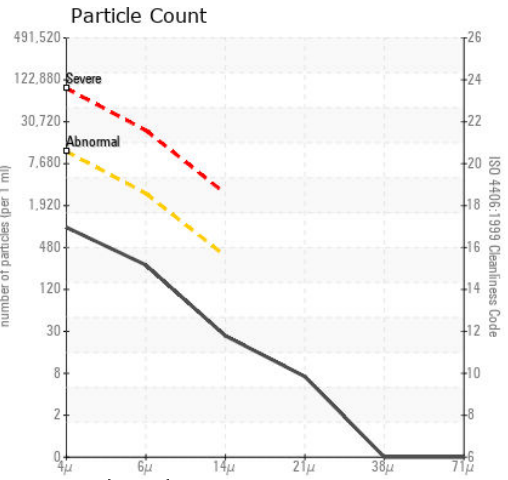
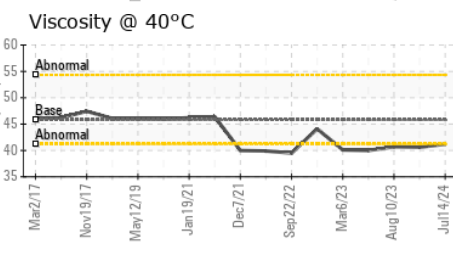
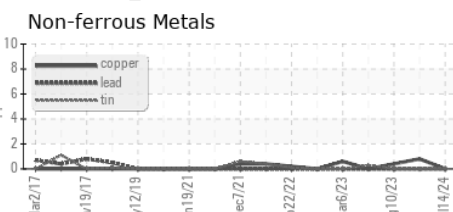
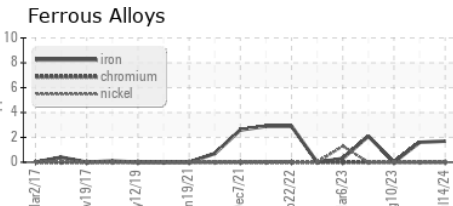
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.8	41.2	40.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM37988      **Received** : 15 Jul 2024  
**Lab Number** : 06236003      **Tested** : 16 Jul 2024  
**Unique Number** : 11124837      **Diagnosed** : 16 Jul 2024 - Doug Bogart  
**Test Package** : IND 2

**TYSON RF-DALLAS-USP**  
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 US 75237  
 Contact: BRIAN WILBOURN  
 brian.wilbourn@tyson.com  
 T: (214)331-3264  
 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)