

# **OIL ANALYSIS REPORT**

Sample Rating Trend

# ADDITIVES

## Machine Id INGERSOLL RAND AC-1 RS55I 75HP (S/N MOX1007727)

Air Compressor

USPI MAX FG 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

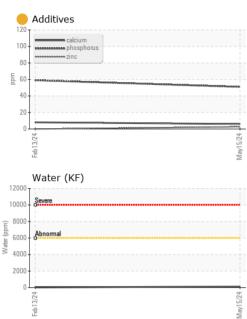
Additive levels indicate the addition of a different brand or type of oil. Confirmed. The AN level is acceptable for this fluid.

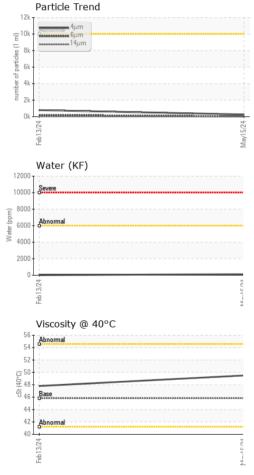
		methou	iiiiii/base	Current	mistory	mstoryz
Sample Number		Client Info		USPM36159	USPM30083	
Sample Date		Client Info		15 May 2024	13 Feb 2024	
Machine Age	hrs	Client Info		0	994	
Oil Age	hrs	Client Info		0	994	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ATTENTION	ATTENTION	
WEAR METALS		method	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	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		<1	0	
Aluminum	ppm	ASTM D5185m	>10	0	<1	
Lead	ppm	ASTM D5185m	>20	0	0	
Copper	ppm	ASTM D5185m	>40	<1	0	
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	<1	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	6	8	
Phosphorus	ppm	ASTM D5185m	0	<b>5</b> 1	59	
Zinc	ppm	ASTM D5185m	0	3	0	
Sulfur	ppm	ASTM D5185m	0	80	85	
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	
Sodium	ppm	ASTM D5185m		1	2	
Potassium	ppm	ASTM D5185m	>20	0	2	
Water	%	ASTM D6304	>0.6	0.012	0.002	
ppm Water	ppm	ASTM D6304	>6000	123	25	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	267	789	
Particles >6µm		ASTM D7647		32	192	
Particles >14µm		ASTM D7647	>320	5	21	
Particles >21µm		ASTM D7647		1	6	
Particles >38µm		ASTM D7647	>20	0	0	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	15/12/10	17/15/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.16	0.07	0.09	

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	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	LIGHT	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE		
6/24	Appearance	scalar	*Visual	NORML	NORML	NORML		
May15/24	Odor	scalar	*Visual	NORML	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.6	NEG	NEG		
	Free Water	scalar	*Visual		NEG	NEG		
	FLUID PROPERT		method	limit/base		history1	history2	
	Visc @ 40°C	cSt	ASTM D445	45.8	49.5	47.8		
	SAMPLE IMAGES	3	method	limit/base	current	history1	history2	
May15/24	Color						no image	
2	Bottom						no image	
	GRAPHS Ferrous Alloys			491,52	Particle Cou	nt	T <sup>26</sup>	
	8 - iron			122,88	80 <b>Severe</b>		-24	
May15/24	e 6+ mickel				1.			
Ma	2			30,72	Abnormal		-22	
				7,68	A contraction of the second se		-20	
	- eb 13/24			5/24 . 1 ml)		N	+20 +18 +16 +14 +12	
	Feb 1			May15/24 s (per 1 ml	20-		+18	
	Non-ferrous Metals	5		apita 48	80-	N	-16	
	<sup>10</sup>			rof b				
	8 - copper			May15/24 number of particles (per 1 ml) 56'1	20		+14	
	E 6				30-		-12	
	<sup>₽</sup> 4-					\		
2 V	Z				•	/	+10	
	24 1			724	2-		-8	
	Feb 13/24			May15/24				
	<sup>™</sup> Viscosity @ 40°C			2	0 4μ 6μ	14µ 21µ	38µ 71µ	
	60 <sub>1</sub>			_03	Acid Numbe	er		
	55 Abnormal			1.0 1.0 (mg KOH/d) 1.0 (mg VOH/d)	Base			
	(J° 0			y D. Buj				
	73 Base				10			
	45 -			Ž 0.0	05			
	40 Abnormal				00			
Υ. C	Feb 13/24			May15/24	Feb 13/24			
M-451	Feb			May	Feb			
Laboratory Sample No. Lab Number Unique Number Test Package	: USPM36159 : 06181346 : 11032672 : IND 2	Madison Ave., Cary, NC 27513 <b>Received</b> : 16 May 2024 <b>Tested</b> : 17 May 2024 <b>Diagnosed</b> : 20 May 2024 - Jonathan Hester				TYSON - BOWLING GREEN K 1388 PRODUCTION AV BOWLING GREEN, K US 4210 Contact: Service Manage		
liscuss this sample report, lenotes test methods that ements of conformity to sp	are outside of the ISO 17	7025 scoj	be of accred	litation.	n rule (JCGM 1	06:2012)	T	

### Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: TYSBOW [WUSCAR] 06181346 (Generated: 05/20/2024 10:55:34) Rev: 1

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