

PROBLEM SUMMARY

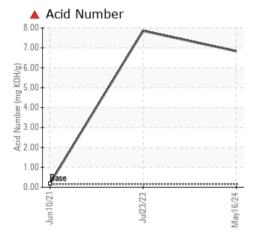
Machine Id

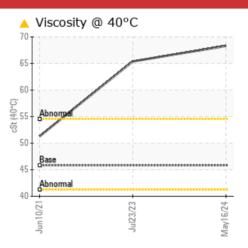
INGERSOLL RAND 2 (100HP) (S/N MOX1002479)

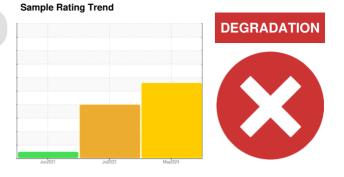
Air Compressor Fluic

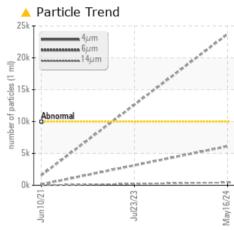
USPI MAX FG AIR 46 (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC 1	FEST RE	SULTS				
Sample Status				SEVERE	SEVERE	NORMAL
Particles >4µm		ASTM D7647	>10000	<u> </u>		1547
Particles >6µm		ASTM D7647	>2500	<u> </u>		140
Particles >14µm		ASTM D7647	>320	<u> </u>		10
Particles >21µm		ASTM D7647	>80	4 118		6
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u> </u>		18/14/10
Acid Number (AN)	mg KOH/g	ASTM D8045	0.16	6.834	▲ 7.852	0.188
Visc @ 40°C	cSt	ASTM D445	45.8	68.3	65.4	51.3

Customer Id: TYSNORTX Sample No.: USPM36170 Lab Number: 06182867 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

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

RECOMMENDED	D ACTIONS			
Action	Status	Date	Done By	Description
Change Fluid			?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flush System			?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Change Filter			?	We recommend you service the filters on this component.
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

23 Jul 2023 Diag: Doug Bogart

Recommend drain oil if not already done and flush with cleaner before refilling with oil. 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. Moderate concentration of visible dirt/debris present in the oil. The AN level is above the recommended limit. The oil viscosity is higher than normal. Confirmed.



10 Jun 2021 Diag: Doug Bogart

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





DEGRADATION



OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

X

Machine Id INGERSOLL RAND 2 (100HP) (S/N MOX1002479)

Air Compressor

USPI MAX FG AIR 46 (--- GAL)

DIAGNOSIS

Recommendation

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

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 above the recommended limit. The oil viscosity is higher than normal. Confirm oil type.

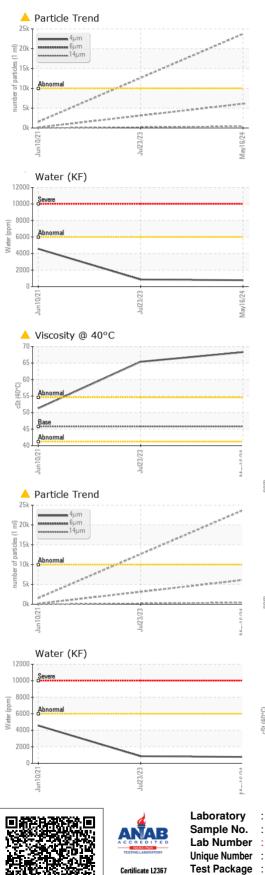
Sample Number Sample Date Machine Age Oil Age Oil Changed		Client Info		USPM36170	USPM27431	USP224228
Machine Age Oil Age		0.11		0311030170	0011012/101	001 224220
Oil Age		Client Info		16 May 2024	23 Jul 2023	10 Jun 2021
-	hrs	Client Info		0	0	0
Oil Changed	hrs	Client Info		0	0	0
		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	11	7	<1
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>40	12	7	0
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
	ррп				-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	4
Barium	ppm	ASTM D5185m	0	0	0	714
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	0	0	<1	<1
Calcium	ppm	ASTM D5185m	0	0	0	3
Phosphorus	ppm	ASTM D5185m	0	0	5	20
Zinc	ppm	ASTM D5185m	0	7	12	0
Sulfur	ppm	ASTM D5185m	0	0	0	45
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		7	5	23
Potassium	ppm	ASTM D5185m	>20	<1	2	1
Water	%	ASTM D6304	>0.6	0.076	0.085	0.457
ppm Water	ppm	ASTM D6304	>6000	769	855.4	4574.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	A 23720		1547
Particles >6µm		ASTM D7647	>2500	6122		140
Particles >14µm		ASTM D7647	>320	▲ 435		10
Particles >21µm		ASTM D7647	>80	▲ 118		6
Particles >38µm		ASTM D7647	>20	5		0
Particles >71µm		ASTM D7647 ASTM D7647	>20	0		0
Oil Cleanliness		ISO 4406 (c)	>4 >20/18/15	↓ 22/20/16		18/14/10
		()				
FLUID DEGRADA	mg KOH/g	method ASTM D8045	limit/base 0.16	current 6.834	history1 7.852	history2 0.188

Report Id: TYSNORTX [WUSCAR] 06182867 (Generated: 05/21/2024 16:28:00) Rev: 1

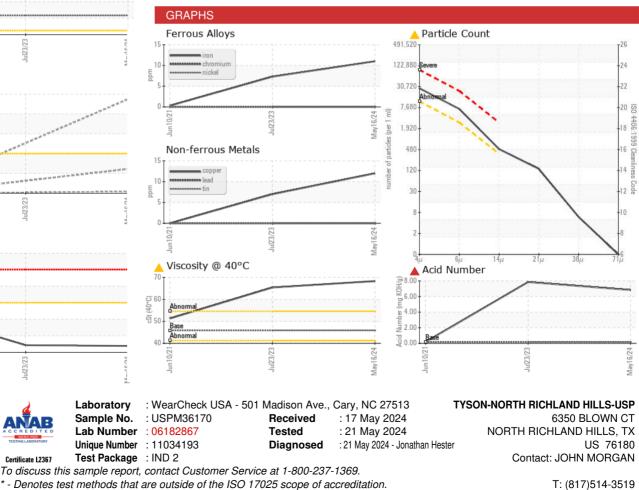
Contact/Location: JOHN MORGAN - TYSNORTX



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	🔺 MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
FLUID PROPERT Visc @ 40°C	cSt	method ASTM D445	limit/base 45.8	current	history1	history2 51.3
	cSt					
Visc @ 40°C	cSt	ASTM D445	45.8	▲ 68.3	▲ 65.4	51.3



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

Report Id: TYSNORTX [WUSCAR] 06182867 (Generated: 05/21/2024 16:28:00) Rev: 1

Contact/Location: JOHN MORGAN - TYSNORTX

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