

## **OIL ANALYSIS REPORT**

Area **P100** Machine to **INGERSOLL RAND 0411190274 - RAYNER & RINN-SCOTT** Component Compressor

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

## Wear

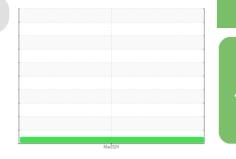
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

## Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



Sample Rating Trend

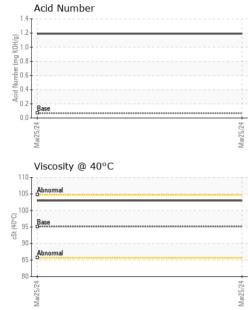


NORMAL

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		UDI06144395		
Sample Date		Client Info		25 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	32		
Chromium	ppm	ASTM D5185m	>10	1		
Nickel	ppm	ASTM D5185m		<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>25	5		
Copper	ppm	ASTM D5185m	>50	8		
Tin	ppm	ASTM D5185m	>15	1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0.7	0		
Barium	ppm	ASTM D5185m	0.1	0		
Molybdenum	ppm	ASTM D5185m	0.8	<1		
Manganese	ppm	ASTM D5185m	0.3	<1		
Magnesium	ppm	ASTM D5185m	1	<1		
Calcium	ppm	ASTM D5185m	5.2	4		
Phosphorus	ppm	ASTM D5185m	48	49		
Zinc	ppm	ASTM D5185m	2	0		
Sulfur	ppm	ASTM D5185m	3509	430		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.068	1.19		



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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	LIGHT		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
Mar25/24	Appearance	scalar	*Visual	NORML	NORML		
Mar	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPERT	IES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	95.15	103		
	SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Mar25,24 +	Color					no image	no image
	Bottom					no image	no image
	Non-ferrous Metal			Mar25/24			
	Viscosity @ 40°C			Mar25/24	Acid Number		
	(2-00) Base 95 Base 90 Abnormal 85 PUSS 80 FUSS 80 FUS			void N	1.5 0.0 +72/52/2P		

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