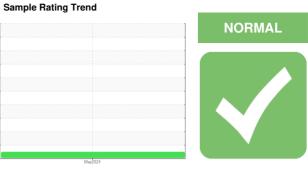


## **OIL ANALYSIS REPORT**

# PG-46 [286910]

# **INGERSOLL RAND MDX1003828 - HARBOR FREIGHT**

Compressor



### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) COMPRESSOR OIL (PAG) ISO 46. Please confirm.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

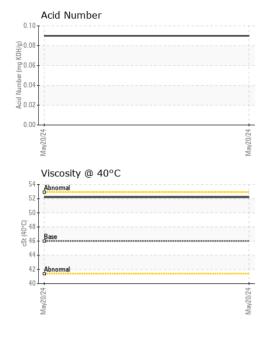
### **Fluid Condition**

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		UFD0001527		
Sample Date		Client Info		20 May 2024		
Machine Age	hrs	Client Info		6620		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.8	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	0		
Lead	ppm	ASTM D5185m	>25	<1		
Copper	ppm		>50	<1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0		
Barium	ppm	ASTM D5185m	525	816		
Molybdenum	ppm	ASTM D5185m	10	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	5	2		
Calcium	ppm	ASTM D5185m	10	2		
Phosphorus	ppm	ASTM D5185m	250	6		
Zinc	ppm	ASTM D5185m	100	5		
Sulfur	ppm	ASTM D5185m	400	375		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1		
Sodium	ppm	ASTM D5185m		18		
Potassium	ppm	ASTM D5185m	>20	4		
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.09		

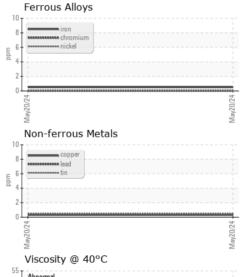


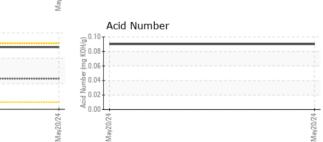
## **OIL ANALYSIS REPORT**



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	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
<b>Emulsified Water</b>	scalar	*Visual	>0.8	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	52.2		
SAMPLE IMAGES	;	method	limit/base	current	history1	history2

	 	,	,
Color		no image	no image
Bottom		no image	no image
GRAPHS			









Certificate 12367

Laboratory Sample No.

Lab Number : 06202897 Unique Number : 11070358

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : UFD0001527

Received : 07 Jun 2024 Tested : 10 Jun 2024

Diagnosed : 10 Jun 2024 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: ED DIENER ed.diener@fluidairedynamics.com T: (847)678-8388

**FLUID-AIRE DYNAMICS** 

225 SPRING LAKE DR

\* - 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)

Contact/Location: ED DIENER - UCFLUSCH

ITASCA, IL

US 60143