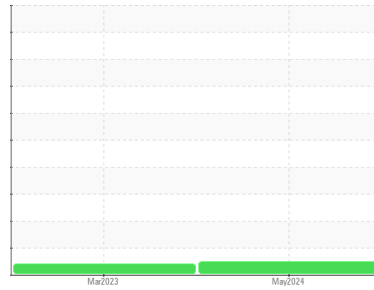




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**VISION**

Machine Id

**HODGE 2109050082 - DIAMONDBACK INDUSTRIES**

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 suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UHC0000693</b>	UCH05825030	---
Sample Date	Client Info		<b>23 May 2024</b>	06 Mar 2023	---
Machine Age	hrs	Client Info	<b>3884</b>	3159	---
Oil Age	hrs	Client Info	<b>1520</b>	2575	---
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>5</b>	6	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185m >25	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m >50	<b>&lt;1</b>	2	---
Tin	ppm	ASTM D5185m >15	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0.3	<b>0</b>	0	---
Barium	ppm	ASTM D5185m 0.3	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m 0.9	<b>1</b>	1	---
Magnesium	ppm	ASTM D5185m 0.2	<b>&lt;1</b>	14	---
Calcium	ppm	ASTM D5185m 0.1	<b>5</b>	181	---
Phosphorus	ppm	ASTM D5185m 429	<b>468</b>	575	---
Zinc	ppm	ASTM D5185m 0.3	<b>94</b>	157	---
Sulfur	ppm	ASTM D5185m 1336	<b>1875</b>	4214	---

## CONTAMINANTS

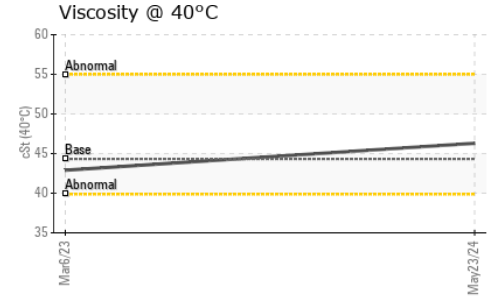
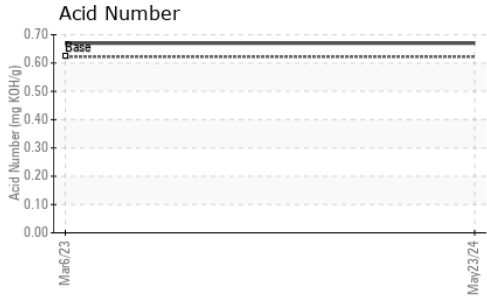
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>2</b>	4	---
Sodium	ppm	ASTM D5185m	<b>3</b>	31	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	4	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.622	<b>0.67</b>	0.67	---



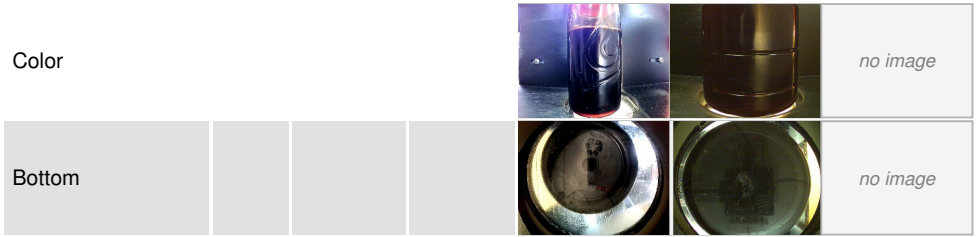
# OIL ANALYSIS REPORT



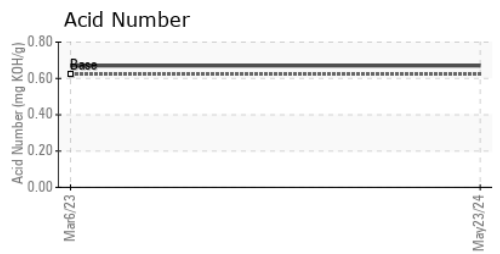
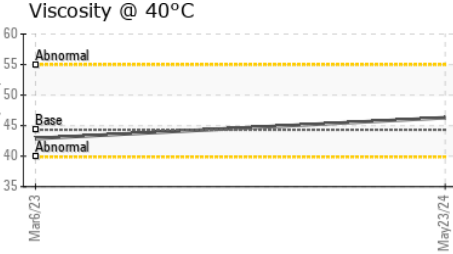
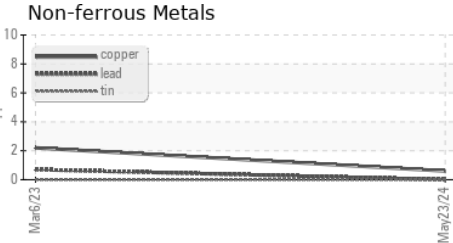
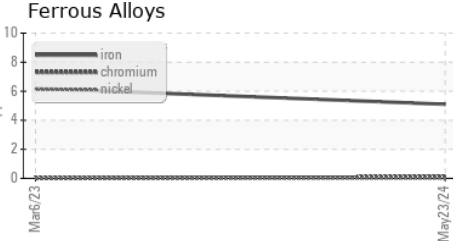
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.32	<b>46.3</b>	42.9

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UHC0000693      **Received** : 17 Jun 2024  
**Lab Number** : **06211844**      **Tested** : 18 Jun 2024  
**Unique Number** : 11084708      **Diagnosed** : 18 Jun 2024 - Wes Davis  
**Test Package** : IND 2

**CHARLOTTE COMPRESSOR**  
 338 S SHARON AMITY RD #201  
 CHARLOTTE, NC  
 US 28211  
 Contact: Service  
 service@atlantaaircompressor.com  
 T: (704)399-9993  
 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)