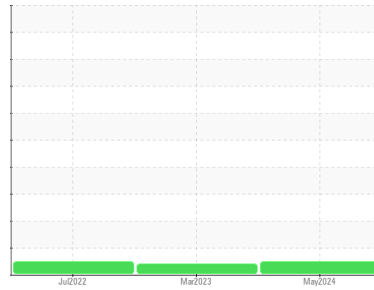




# OIL ANALYSIS REPORT

Area  
**VISION**  
 Machine Id  
**HODGE 2109050081 - DIAMONDBACK INDUSTRIES**  
 Component  
**Compressor**

### Sample Rating Trend



### DIAGNOSIS

**Recommendation**  
 The filter change at the time of sampling has been noted. 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 INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>UHC0000692</b>	UCH05825029	UCH05825028
Sample Date	Client Info			<b>23 May 2024</b>	06 Mar 2023	22 Jul 2022
Machine Age	hrs	Client Info		<b>8206</b>	3817	1924
Oil Age	hrs	Client Info		<b>3221</b>	3261	1367
Oil Changed	Client Info			<b>Not Changed</b>	Not Changd	Not Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>4</b>	8	8
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m		<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

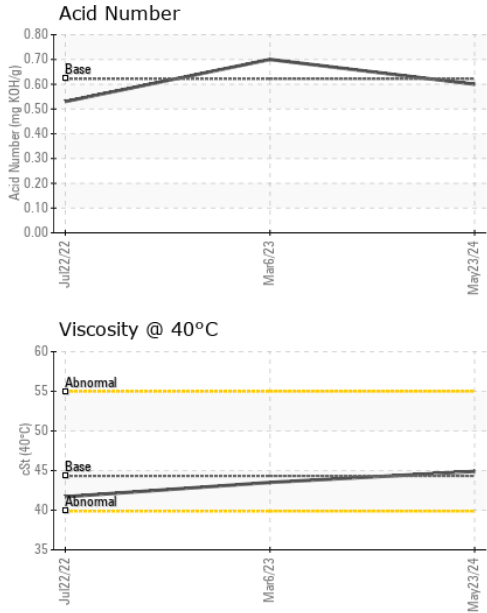
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0.3	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	0.3	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	0.9	<b>1</b>	2	2
Magnesium	ppm	ASTM D5185m	0.2	<b>&lt;1</b>	22	13
Calcium	ppm	ASTM D5185m	0.1	<b>25</b>	211	343
Phosphorus	ppm	ASTM D5185m	429	<b>506</b>	604	676
Zinc	ppm	ASTM D5185m	0.3	<b>232</b>	211	215
Sulfur	ppm	ASTM D5185m	1336	<b>2262</b>	4284	4788

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>2</b>	6	5
Sodium	ppm	ASTM D5185m		<b>19</b>	31	22
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.622	<b>0.60</b>	0.70	0.53



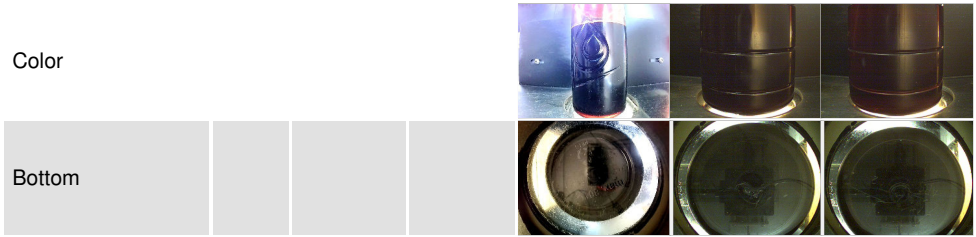
# OIL ANALYSIS REPORT



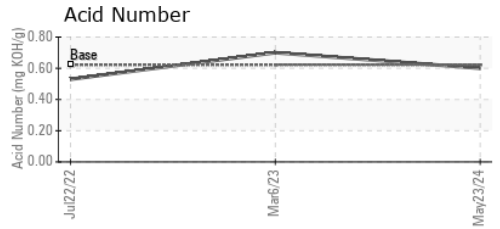
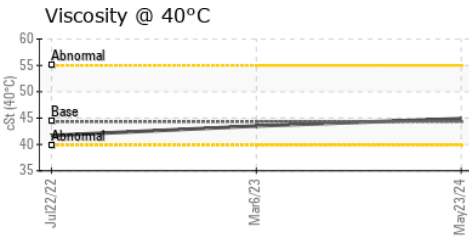
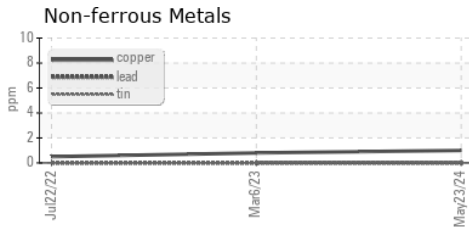
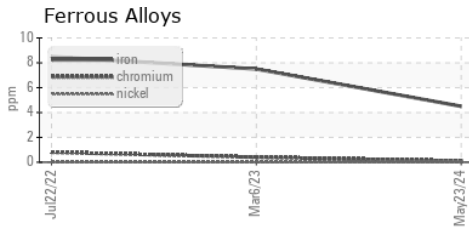
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	44.32	<b>44.9</b>	43.5	41.7

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UHC0000692      **Received** : 17 Jun 2024  
**Lab Number** : **06211845**      **Tested** : 18 Jun 2024  
**Unique Number** : 11084709      **Diagnosed** : 19 Jun 2024 - Don Baldrige  
**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)