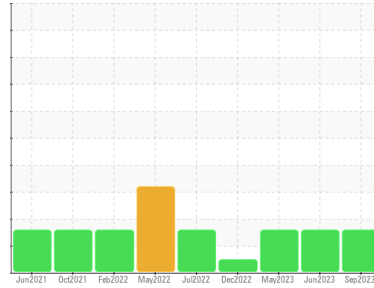
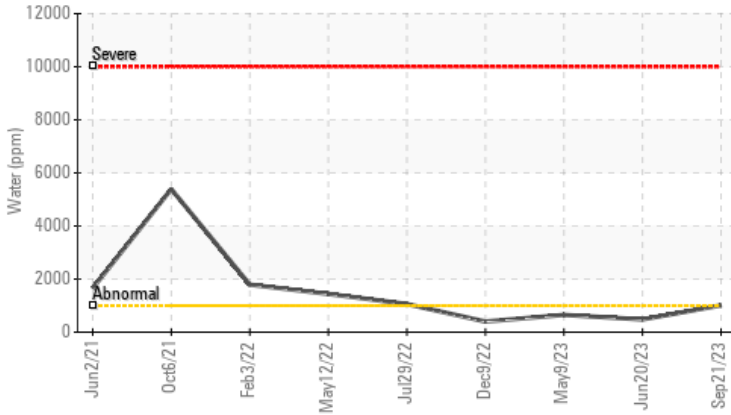


Area  
**PALASYN 45**  
Machine Id  
**1703070004**  
Component  
**Compressor**



**COMPONENT CONDITION SUMMARY**

▲ **Water (KF)**



**RECOMMENDATION**

We advise that you follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

**PROBLEMATIC TEST RESULTS**

Sample Status				<b>ATTENTION</b>	ATTENTION	ATTENTION
Water	%	ASTM D6304	>0.1	▲ <b>0.101</b>	0.048	0.065
ppm Water	ppm	ASTM D6304	>1000	▲ <b>1010</b>	480	650
Emulsified Water	scalar	*Visual	>0.1	▲ <b>0.2%</b>	0.2%	0.2%

Customer Id: UC BRYBRO  
Sample No.: UCS05959156  
Lab Number: 05959156  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component.

## HISTORICAL DIAGNOSIS

### 20 Jun 2023 Diag: Don Baldrige

WATER



Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. Excessive free water present. The AN level is acceptable for this fluid.

view report



### 09 May 2023 Diag: Don Baldrige

WATER



We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. Excessive free water present. The AN level is acceptable for this fluid.

view report



### 09 Dec 2022 Diag: Jonathan Hester

NORMAL

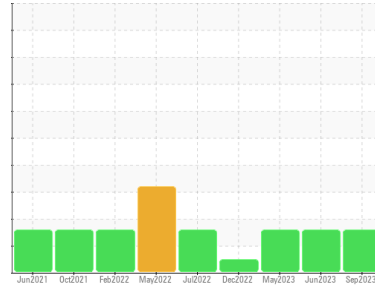


Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Area  
**PALASYN 45**  
Machine Id  
**1703070004**  
Component  
**Compressor**



**DIAGNOSIS**

- Recommendation**  
We advise that you follow the water drain-off procedure for this component. 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 a light concentration of water present in the oil.
- Fluid Condition**  
The AN level is acceptable for this fluid.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UCS05959156</b>	UCS05880269	UCS05845039
Sample Date	Client Info		<b>21 Sep 2023</b>	20 Jun 2023	09 May 2023
Machine Age	hrs	Client Info	<b>22898</b>	22042	21720
Oil Age	hrs	Client Info	<b>1178</b>	3221	1000
Oil Changed	Client Info		<b>Not Changed</b>	Changed	N/A
Sample Status			<b>ATTENTION</b>	ATTENTION	ATTENTION

**WEAR METALS**

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

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0.0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m 0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m 0.0	<b>0</b>	0	1
Calcium	ppm	ASTM D5185m 0.0	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m 966	<b>572</b>	530	522
Zinc	ppm	ASTM D5185m 0	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m 1309	<b>1340</b>	1450	1435

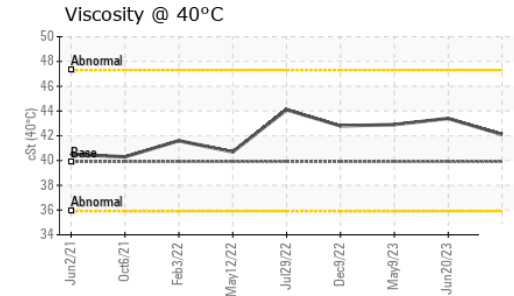
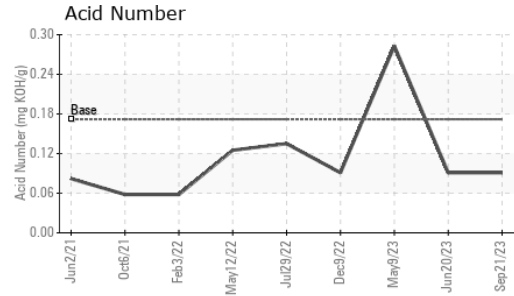
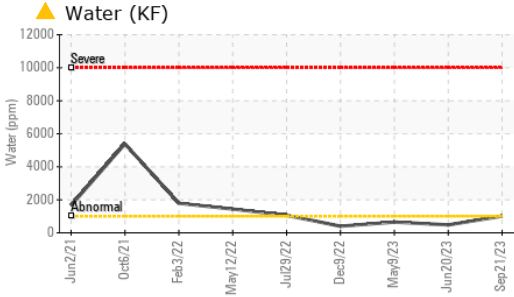
**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>3</b>	2	3
Sodium	ppm	ASTM D5185m	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	2
Water	%	ASTM D6304 >0.1	<b>▲ 0.101</b>	0.048	0.065
ppm Water	ppm	ASTM D6304 >1000	<b>▲ 1010</b>	480	650

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.172	<b>0.091</b>	0.091	0.283

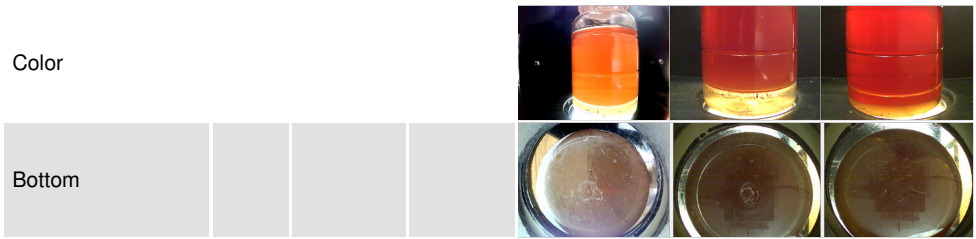
# OIL ANALYSIS REPORT



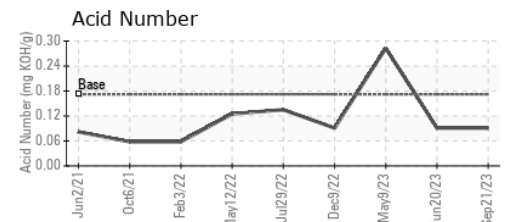
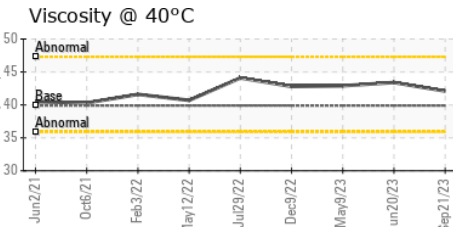
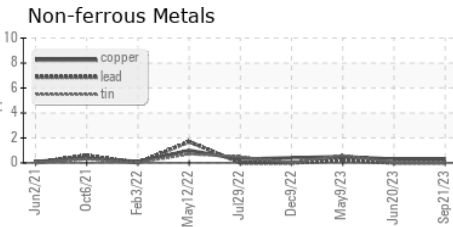
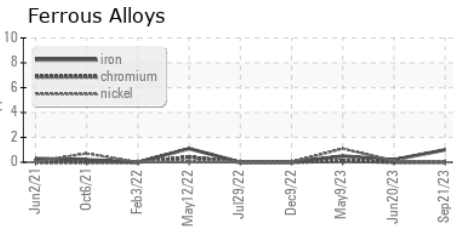
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	MODER	MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	0.2%
Free Water	scalar	*Visual		▲ 10.0	▲ 10.0

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	39.9	<b>42.1</b>	43.4	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.** : UCS05959156 **Received** : 22 Sep 2023  
**Lab Number** : 05959156 **Diagnosed** : 25 Sep 2023  
**Unique Number** : 10660369 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF )

**BRYAN TOOL & MACHINING INC**  
 2970 MAYLAND RD  
 BROADWAY, VA  
 US 22815  
 Contact: JOEY DEAN  
 joey@bryantool.com  
 T: (540)896-6758  
 F: (540)896-2428

Certificate L2367  
 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)