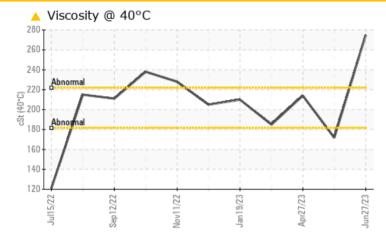


## **PROBLEM SUMMARY**

# BASIN DRILLING 105

Component 3 Pump Fluid BAD ASS 220 (--- GAL)

#### COMPONENT CONDITION SUMMARY



REC	OMM	ENDA	TION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				ATTENTION	ABNORMAL	SEVERE	
Visc @ 40°C	cSt	ASTM D445		<b>A</b> 274.9	<b>▲</b> 171.8	214	

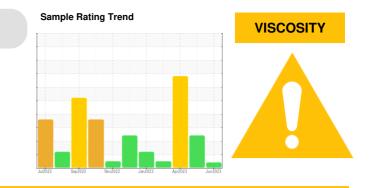
Customer Id: DELSHR Sample No.: PCA0093213 Lab Number: 05893844 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



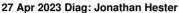
There are no recommended actions for this sample.

#### **HISTORICAL DIAGNOSIS**

#### 31 May 2023 Diag: Jonathan Hester



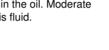
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 150 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.







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







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



view report

view report



Report Id: DELSHR [WUSCAR] 05893844 (Generated: 07/14/2023 00:46:34) Rev: 1



### **OIL ANALYSIS REPORT**

Sample Rating Trend

limit/base

current

VISCOSITY

history2

history1



SAMPLE INFORMATION method

Component 3 Pump Fluid

**BASIN DRILLING 105** 

**BAD ASS 220 (--- GAL)** 

#### DIAGNOSIS

#### A Recommendation

#### Wear

Machine Id

#### Contamination

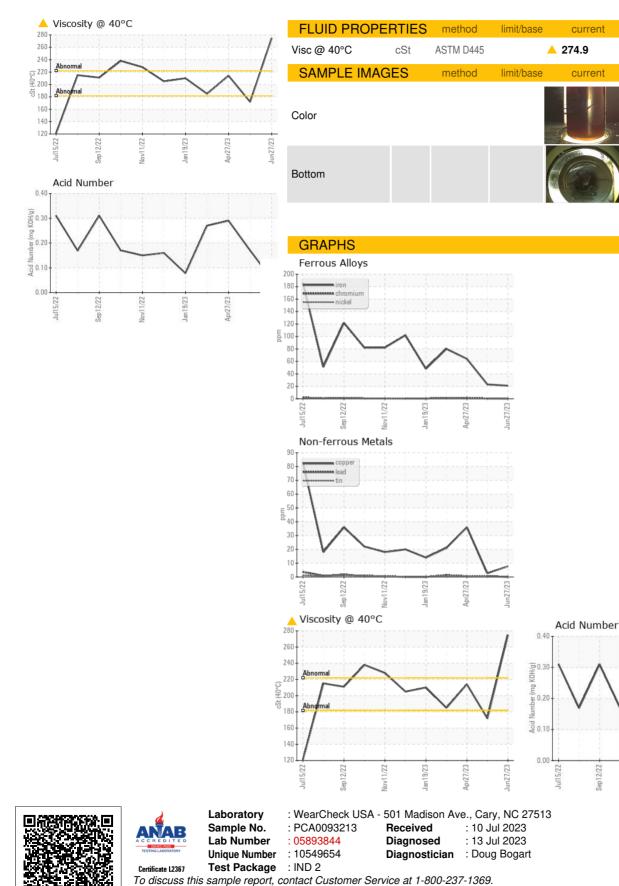
#### Fluid Condition

DIAGNOSIS	SAWFLE INFUN		method	IIIIII/Dase	current	TIISTOLA	TISIOT YZ
Recommendation	Sample Number		Client Info		PCA0093213	PCA0096205	PCA0096213
esample at the next service interval to monitor.	Sample Date		Client Info		27 Jun 2023	31 May 2023	27 Apr 2023
ear	Machine Age	mls	Client Info		0	0	0
component wear rates are normal.	Oil Age	mls	Client Info		0	0	0
ontamination	Oil Changed		Client Info		N/A	N/A	N/A
ere is no indication of any contamination in the	Sample Status				ATTENTION	ABNORMAL	SEVERE
		0	mathad	limit/base	ouwront	historyd	history ()
Fluid Condition	WEAR METAL	.0	method	limit/base	current	history1	history2
e oil viscosity is higher than normal. Confirm oil	Iron	ppm	ASTM D5185m	>500	21	23	64
e. The AN level is acceptable for this fluid.	Chromium	ppm	ASTM D5185m	>7	0	<1	2
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	0	13
	Lead	ppm	ASTM D5185m	>35	0	<1	<1
	Copper	ppm	ASTM D5185m	>50	8	3	36
	Tin	ppm	ASTM D5185m	>5	0	0	<1
	Antimony	ppm	ASTM D5185m			0	
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
		lele			-		
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		0	<u> </u>	14
	Barium	ppm	ASTM D5185m		13	<b>▲</b> 0	21
	Molybdenum	ppm	ASTM D5185m		0	2	<1
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		5	13	5
	Calcium	ppm	ASTM D5185m		22	63	46
	Phosphorus	ppm	ASTM D5185m		138	<u> </u>	219
	Zinc	ppm	ASTM D5185m		21	46	38
	Sulfur	ppm	ASTM D5185m		7659	🔺 16579	7197
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>50	8	4	44
	Sodium	ppm	ASTM D5185m	,	1	0	10
	Potassium	ppm	ASTM D5185m	>20	<1	<1	4
	FLUID DEGRAI			limit/base		history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.055	0.17	0.29
	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	▲ MODER	▲ MODER
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual		NEG	NEG	▲ 0.2%
ort Id: DELSHR [WIJSCAR] 05893844 (Concreted: 07/14/2023 0)							
ort Id: DELSHR [WUSCAR] 05893844 (Generated: 07/14/2023 0	Free Water	scalar	*Visual		NEG	on: BARAD GOR	Page 3 c
							Fade 3.0

Page 3 of 4



## **OIL ANALYSIS REPORT**



\* - 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)

DELTA FUEL COMPANY 1000 WELLS ISLAND RD SHREVEPORT, LA US 71107 Contact: BRAD GORDON bgordon@deltafuel.com T: (318)780-3921 F:

Apr27/23

Jun27/23

Jan 19/23

Nov11/22

Contact/Location: BRAD GORDON - DELSHR

history2

history2

214

history1

history1

**1**71.8