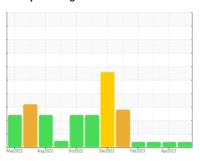


# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id

# **BASIN DRILLING 103**

Top Drive

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

## 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

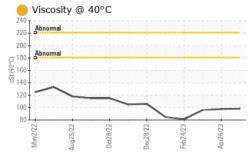
## Fluid Condition

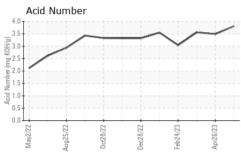
The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0096204	PCA0096221	PCA0093197
Sample Date		Client Info		25 May 2023	26 Apr 2023	27 Mar 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	88	62	44
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	13	2	6
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>25	4	2	12
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		330	377	355
Barium	ppm	ASTM D5185m		218	94	103
Molybdenum	ppm	ASTM D5185m		<1	<1	3
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m		4	3	12
Calcium	ppm	ASTM D5185m		170	130	141
Phosphorus	ppm	ASTM D5185m		1646	1541	1599
Zinc	ppm	ASTM D5185m		8	14	19
Sulfur	ppm	ASTM D5185m		29899	24432	28395
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	41	18	18
Sodium	ppm	ASTM D5185m		4	1	2
Potassium	ppm	ASTM D5185m	>20	5	2	2
FLUID DEGRAE	OATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		3.81	3.49	3.56



## **OIL ANALYSIS REPORT**

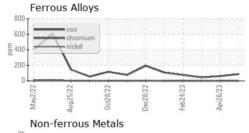


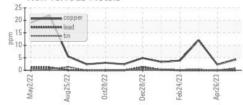


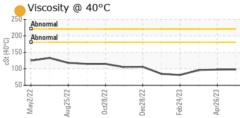
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		98.1	97.7	96.0
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

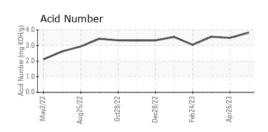


**Bottom** 













Certificate 12367

Laboratory Sample No. Lab Number : 05864463

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0096204 Unique Number : 10498928

Received **Tested** 

: 05 Jun 2023 : 06 Jun 2023

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

Diagnosed : 06 Jun 2023 - Doug Bogart

US 71107 Contact: BRAD GORDON bgordon@deltafuel.com T: (318)780-3921

**DELTA FUEL COMPANY** 

1000 WELLS ISLAND RD

SHREVEPORT, LA

\* - 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)