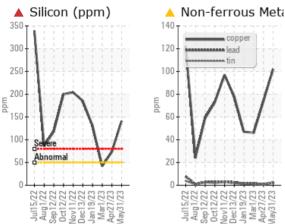


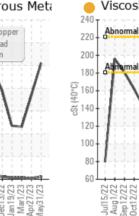


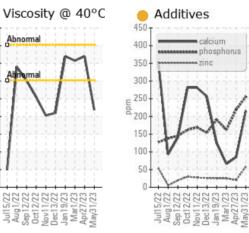
OIL

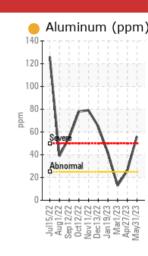
Machine Id

# COMPONENT CONDITION SUMMARY









DIRT

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	ABNORMAL	ABNORMAL	
Copper	ppm	ASTM D5185m	>50	<u> </u>	74	46	
Silicon	ppm	ASTM D5185m	>50	<b>1</b> 41	<b></b> 74	42	

Customer Id: DELSHR Sample No.: PCA0096206 Lab Number: 05864460 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

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

RECOMMENDE	RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Resample	MISSED	Jul 13 2023	?	We recommend an early resample to monitor this condition.			
Check Dirt Access	MISSED	Jul 13 2023	?	We advise that you check all areas where dirt can enter the system.			

# HISTORICAL DIAGNOSIS



# 27 Apr 2023 Diag: Jonathan Hester

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. 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. Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress. The AN level is acceptable for this fluid.



view report



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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 19 Jan 2023 Diag: Don Baldridge

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

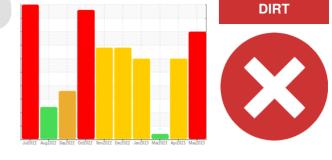


## Report Id: DELSHR [WUSCAR] 05864460 (Generated: 05/30/2024 10:14:24) Rev: 1



# **OIL ANALYSIS REPORT**

Sample Rating Trend



BASIN DRILLING 105

Fluid BAD ASS 220 (--- GAL)

# DIAGNOSIS

#### A Recommendation

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

#### A Wear

Machine Id

The copper level is abnormal. All other component wear rates are normal.

### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

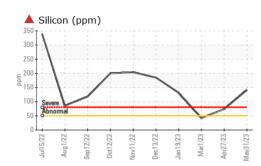
#### Fluid Condition

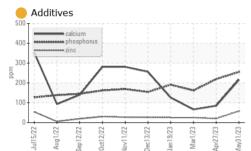
An additive depletion is indicated. Viscosity of sample indicates oil is within ISO 150 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

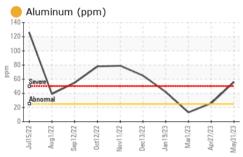
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0096206	PCA0096212	PCA0090230
Sample Date		Client Info		31 May 2023	27 Apr 2023	01 Mar 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	126	103	118
Chromium	ppm	ASTM D5185m	>7	2	2	1
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		2	1	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<mark> </mark> 56	26	13
Lead	ppm	ASTM D5185m	>35	2	<1	2
Copper	ppm	ASTM D5185m	>50	<u> </u>	74	46
Tin	ppm	ASTM D5185m	>5	2	<1	<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		21	29	4
Barium	ppm	ASTM D5185m		<b>e</b> 259	98	55
Molybdenum	ppm	ASTM D5185m		3	<1	1
Manganese	ppm	ASTM D5185m		2	1	2
Magnesium	ppm	ASTM D5185m		21	6	8
Calcium	ppm	ASTM D5185m		<mark> </mark> 216	85	66
Phosphorus	ppm	ASTM D5185m		255	219	162
Zinc	ppm	ASTM D5185m		58	20	25
Sulfur	ppm	ASTM D5185m		<b>9</b> 7946	6475	9018
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>1</b> 41	<b></b> 74	42
Sodium	ppm	ASTM D5185m		13	12	7
Potassium	ppm	ASTM D5185m	>20	20	10	4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.30	0.32	0.22

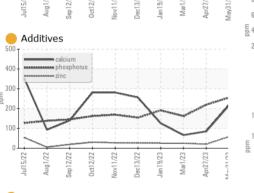


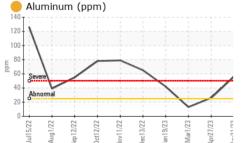
# **OIL ANALYSIS REPORT**

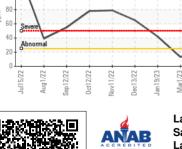












Certificate 12367

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)

Report Id: DELSHR [WUSCAR] 05864460 (Generated: 05/30/2024 10:14:25) Rev: 1

Contact/Location: BRAD GORDON - DELSHR

#### Page 4 of 4

E:

T: (318)780-3921

			11 11 11			
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	NONE	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	LIGHT	A 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	▲ 0.2%	NEG
Free Water	scalar	*Visual		NEG	>10%	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		<b>—</b> 147.4	208	203
Visc @ 40°C SAMPLE IMAG		ASTM D445 method	limit/base	e 147.4 current	208 history1	203 history2
			limit/base			



