

## **PROBLEM SUMMARY**

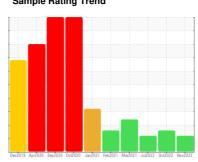
## Sample Rating Trend



## BOSS DRILL ISLAND 4 (S/N 117618)

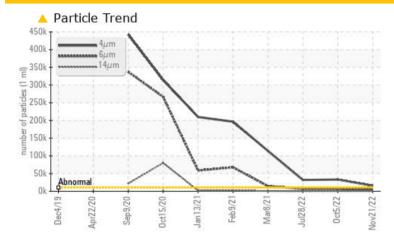
Compressor

**TULCO LUBSOIL LPG WS 150 (10 GAL)** 





## **COMPONENT CONDITION SUMMARY**



## RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL					
Particles >4µm	ASTM D7647	>10000	<u> </u>	<b>△</b> 33083	<u></u>					
Particles >6μm	ASTM D7647	>1300	<b>4220</b>	<b>▲</b> 6883	<u></u> 6865					
Oil Cleanliness	ISO 4406 (c)	>20/17/15	<b>21/19/14</b>	A 22/20/16	A 22/20/15					

**Customer Id: RICHOB** Sample No.: TO90002716 Lab Number: 05747966 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

## **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

## 05 Oct 2022 Diag: Jonathan Hester

ISO



The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



## 28 Jul 2022 Diag: Doug Bogart

150



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 08 Mar 2021 Diag: Doug Bogart

WEAR



We recommend you service the filters on this component. Resample at the next service interval to monitor. The iron level is abnormal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**

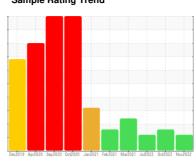
# Sample Rating Trend



## BOSS DRILL ISLAND 4 (S/N 117618)

Compressor

**TULCO LUBSOIL LPG WS 150 (10 GAL)** 





## **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. 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 high amount of silt (particulates < 14 microns in size) present in the oil.

## **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in

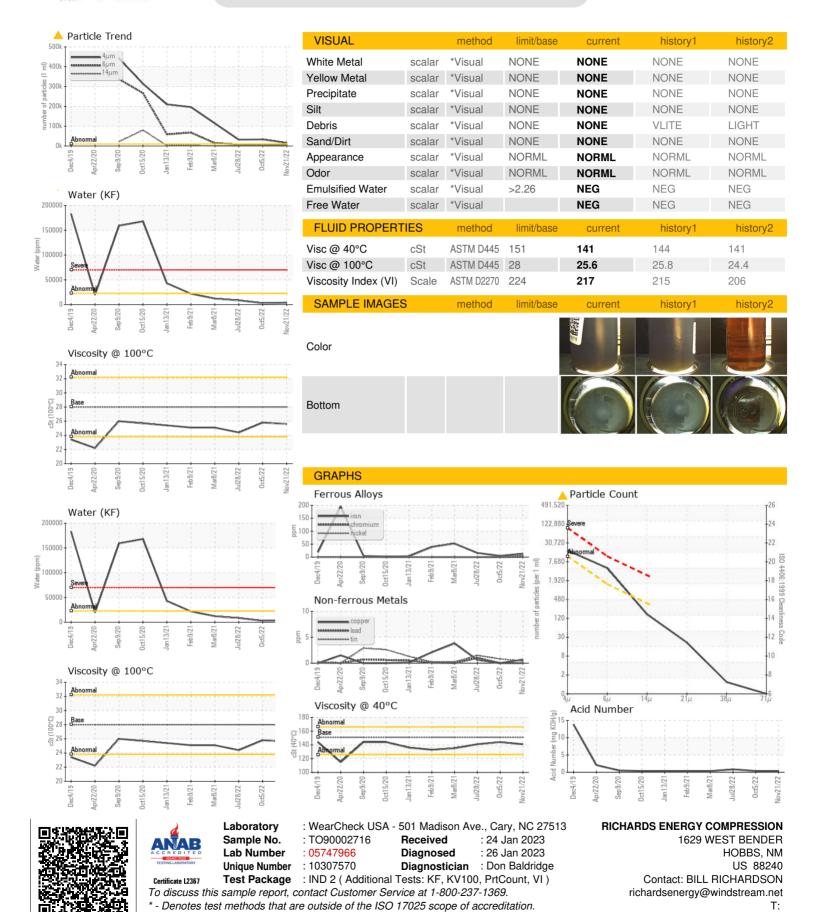
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90002716	TO90002618	TO90002552
Sample Date		Client Info		21 Nov 2022	05 Oct 2022	28 Jul 2022
Machine Age	hrs	Client Info		20692	19847	15937
Oil Age	hrs	Client Info		20692	19847	0
Oil Changed		Client Info		Filtered	Filtered	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	13	5	16
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m		5	1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	0	<1
Lead	ppm	ASTM D5185m	>25	0	0	1
Copper	ppm	ASTM D5185m	>50	<1	0	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	2
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	7
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		2	<1	1
Magnesium	ppm	ASTM D5185m	0	1	0	<1
Calcium	ppm	ASTM D5185m	0	4	0	2
Phosphorus	ppm	ASTM D5185m	0	213	191	311
Zinc	ppm	AOTAL DELOS	0	206	143	200
Sulfur		ASTM D5185m	U	200	1 40	200
	ppm	ASTM D5185m ASTM D5185m	0	137	128	85
CONTAMINANTS	ppm					
	ppm	ASTM D5185m	0	137	128	85
CONTAMINANTS	ppm	ASTM D5185m method	0 limit/base	137 current	128 history1	85 history2
CONTAMINANTS Silicon	ppm	ASTM D5185m  method  ASTM D5185m	0 limit/base	137  current <1	128 history1 0	85 history2 <1
CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m	0 limit/base >25	137  current  <1  33	128 history1 0 10	85 history2 <1 16
CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m	0 limit/base >25 >20	137	128 history1 0 10 <1	85 history2 <1 16 2
CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	0 limit/base >25 >20 >2.26	137  current  <1  33  2  0.389	128 history1 0 10 <1 0.285	85 history2 <1 16 2 0.834
CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304	0	137  current  <1 33 2 0.389 3890	128 history1 0 10 <1 0.285 2850	85 history2 <1 16 2 0.834 8340
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304  method	0	137	128 history1 0 10 <1 0.285 2850 history1	85 history2 <1 16 2 0.834 8340 history2
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm	Method ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647	0	137	128 history1  0 10 <1 0.285 2850 history1  ▲ 33083	85 history2 <1 16 2 0.834 8340 history2  ▲ 31807
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm	Method ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647	0	137	128 history1  0 10 <1 0.285 2850 history1  ▲ 33083 ▲ 6883	85 history2 <1 16 2 0.834 8340 history2  ▲ 31807 ▲ 6865
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	0	137	128 history1  0 10 <1 0.285 2850 history1  △ 33083 △ 6883 △ 360	85 history2 <1 16 2 0.834 8340 history2  ▲ 31807 ▲ 6865 270
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304  method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0	137  current  <1 33 2 0.389 3890  current  ▲ 15412  ▲ 4220 143 18	128  history1  0  10  <1  0.285  2850  history1  ▲ 33083  ▲ 6883  ▲ 360  52	85  history2  <1 16 2 0.834 8340 history2  ▲ 31807 ▲ 6865 270 32
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304  Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0	137  current  <1 33 2 0.389 3890  current  ▲ 15412  ▲ 4220 143 18 1	128  history1  0  10  <1  0.285  2850  history1  ▲ 33083  ▲ 6883  ▲ 360  52  1	85  history2  <1 16 2 0.834 8340 history2  ▲ 31807 ▲ 6865 270 32 2

0.35

0.82



## **OIL ANALYSIS REPORT**



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: