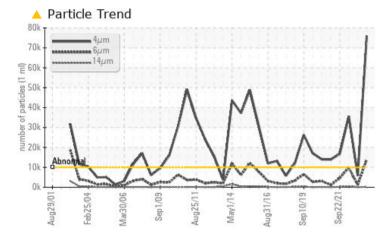




**IEA** 

## SHELL TURBO T ISO 68 (25 LTR)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status		ABNORMAL	NORMAL	ABNORMAL					
Particles >4µm	ASTM D7647 >10000	🔺 75944	5843	▲ 35625					
Particles >6µm	ASTM D7647 >2500	<b>A</b> 14013	1180	<b>4</b> 9852					
Particles >14µm	ASTM D7647 >160	<u> </u>	72	<b>4</b> 46					
Oil Cleanliness	ISO 4406 (c) >20/18/14	<b>A</b> 23/21/15	20/17/13	🔺 22/20/16					

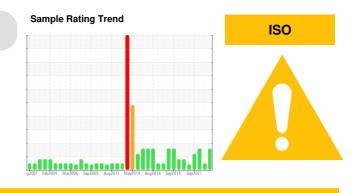
Customer Id: ALGMIS Sample No.: WC0681491 Lab Number: 02546676 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

*To change component or sample information:* Gloria Gonzalez +1 (289)291-4643 x4643 <u>gloria.gonzalez@wearcheck.com</u>



RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		
Resample			?	We recommend an early resample to monitor this condition.		

### HISTORICAL DIAGNOSIS



## 06 Oct 2022 Diag: Kevin Marson

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### 23 Feb 2022 Diag: Kevin Marson



We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. Particles >14 $\mu$ m are abnormally high. Particles >21 $\mu$ m are abnormally high. Particles >4 $\mu$ m are abnormally high. Particles >6 $\mu$ m are abnormally high. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### 22 Sep 2021 Diag: Kevin Marson



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### view report





## **OIL ANALYSIS REPORT**

### Area COR Machine Id LONGGEN3BRGDS

#### Bearing Fluid

### SHELL TURBO T ISO 68 (25 LTR)

### DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

### Wear

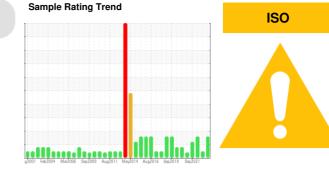
All component wear rates are normal.

### Contamination

Oil Cleanliness are abnormally high. Particles >4 $\mu$ m are abnormally high. Particles >6 $\mu$ m are abnormally high. Particles >14 $\mu$ m are notably high. The water content is negligible.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



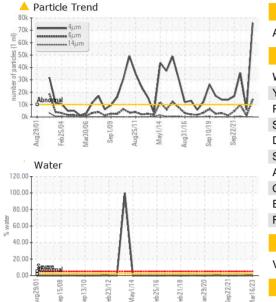
#### SAMPLE INFORMATION method limit/base current history 1 history 2 WC0681491 WC0681477 WC0447248 Sample Number **Client Info** Sample Date Client Info 16 Mar 2023 06 Oct 2022 23 Feb 2022 Machine Age mths Client Info 305 300 292 Oil Age mths Client Info 5 33 25 Oil Changed **Client Info** Not Changd Changed Not Changd Sample Status ABNORMAL NORMAL ABNORMAL WEAR METALS method limit/base current history 1 history 2 PQ 0 0 0 ASTM D8184\* ASTM D5185(m) >20 0 0 Iron 1 ppm Chromium ppm ASTM D5185(m) >20 0 0 0 Nickel ASTM D5185(m) >20 0 0 ppm <1 0 0 Titanium ppm ASTM D5185(m) 0 Silver ASTM D5185(m) 0 0 0 ppm Aluminum ASTM D5185(m) >20 0 0 0 ppm ASTM D5185(m) >20 0 Lead ppm <1 <1 Copper ppm ASTM D5185(m) >20 4 <1 <1 ASTM D5185(m) >20 <1 Tin ppm <1 <1 Antimony ppm ASTM D5185(m) <1 0 <1 Vanadium ASTM D5185(m) 0 0 0 ppm Beryllium ASTM D5185(m) 0 0 0 ppm Cadmium 0 0 0 ppm ASTM D5185(m) **ADDITIVES** method limit/base current history 1 history 2 0 Boron ppm ASTM D5185(m) <1 <1 0 0 Barium ASTM D5185(m) 0 ppm 0 0 Molybdenum ASTM D5185(m) 0 ppm 0 0 Manganese ppm ASTM D5185(m) 0 Magnesium ASTM D5185(m) 0 0 0 ppm 0 0 0 Calcium ASTM D5185(m) ppm Phosphorus ASTM D5185(m) <1 0 <1 ppm 3 Zinc ppm ASTM D5185(m) <1 1 Sulfur ASTM D5185(m) 18 23 21 naa Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS method limit/base current history 1 history 2 Silicon >15 0 0 0 ppm ASTM D5185(m) Sodium ppm ASTM D5185(m) <1 0 0 Potassium ASTM D5185(m) >20 0 0 <1 ppm Water % ASTM D6304\* >2 0.001 0.001 0.00 7.4 0.00 ASTM D6304\* 8.4 ppm Water ppm **FLUID CLEANLINESS** method limit/base current history 1 history 2 Particles >4µm ASTM D7647 >10000 75944 5843 ▲ 35625 ASTM D7647 >2500 14013 1180 ▲ 9852 Particles >6µm **4**46 Particles >14µm ASTM D7647 243 72 >16019 ▲ 82 Particles >21µm ASTM D7647 >40 51 Particles >38µm ASTM D7647 >10 2 1 2 Particles >71µm 0 0 0 ASTM D7647 >3

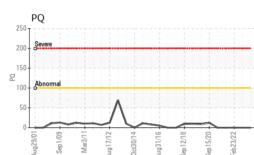
ISO 4406 (c)

>20/18/14 **23/21/15** 20/17/13 **2**2/20/16 Contact/Location: Antonino Champ Fernando - ALGMIS



# **OIL ANALYSIS REPORT**





White MetalscalarVisual*NONENONENONENONEYellow MetalscalarVisual*NONENONENONENONEPrecipitatescalarVisual*NONENONENONENONESiltscalarVisual*NONENONENONENONEDebrisscalarVisual*NONENONENONENONESand/DirtscalarVisual*NONENONENONENONEAppearancescalarVisual*NORMLNORMLNORMLNORML	FLUID DEGRADATIC	N method	limit/base o	current	history 1	history 2
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Yellow MetalscalarVisual*NONENONENONENONEPrecipitatescalarVisual*NONENONENONENONESiltscalarVisual*NONENONENONENONEDebrisscalarVisual*NONENONENONENONESand/DirtscalarVisual*NONENONENONENONEAppearancescalarVisual*NORMLNORMLNORMLNORML	VISUAL	method	limit/base	current	history 1	history 2
PrecipitatescalarVisual*NONENONENONENONESiltscalarVisual*NONENONENONENONEDebrisscalarVisual*NONENONENONENONESand/DirtscalarVisual*NONENONENONENONEAppearancescalarVisual*NORMLNORMLNORMLNORML	White Metal sc	ılar Visual* N	NONE NO	ONE	NONE	NONE
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DebrisscalarVisual*NONENONENONENONESand/DirtscalarVisual*NONENONENONENONEAppearancescalarVisual*NORMLNORMLNORML	Precipitate sc	ılar Visual* N	NONE NO	ONE	NONE	NONE
Sand/DirtscalarVisual*NONENONENONENONEAppearancescalarVisual*NORMLNORMLNORMLNORML	Silt sc	llar Visual* N	NONE NO	ONE	NONE	NONE
Appearance scalar Visual* NORML NORML NORML NORML	Debris sc	ılar Visual* N	NONE NO	ONE	NONE	NONE
	Sand/Dirt sc	llar Visual* N	NONE NO	ONE	NONE	NONE
Odor scalar Vieual* NOPMI NOPMI NOPMI	Appearance sc	ılar Visual* N	NORML NO	ORML	NORML	NORML
	Odor sc	lar Visual* N	NORML NO	ORML	NORML	NORML
Emulsified Water scalar Visual* >2 NEG NEG NEG	Emulsified Water sc	llar Visual* >	>2 NE	EG I	NEG	NEG
Free Water scalar Visual* NEG NEG	Free Water sc	ılar Visual*	NE	EG	NEG	NEG
FLUID PROPERTIES method limit/base current history 1 history 2	FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C cSt ASTM D7279(m) 68 65.8 65.8 66.5	Visc @ 40°C cS	ASTM D7279(m) 6	65 <b>65</b>	5.8	65.8	66.5
SAMPLE IMAGES method limit/base current history 1 history 2	SAMPLE IMAGES	method	limit/base	current	history 1	history 2



Bottom



