

# **PROBLEM SUMMARY**

# Sample Rating Trend

.................

ISO

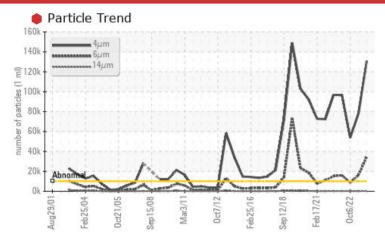


# COR Machine Id LONGGEN3BRGUS

Component **Bearing** 

SHELL TURBO T ISO 68 (25 LTR)

# COMPONENT CONDITION SUMMARY



# **RECOMMENDATION**

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS									
Sample Status			SEVERE	ABNORMAL	ABNORMAL				
Particles >4µm	ASTM D7647	>10000	<b>130678</b>	<u>▲</u> 77991	<u>▲</u> 53775				
Particles >6µm	ASTM D7647	>2500	34633	<u>▲</u> 16079	<b>▲</b> 8782				
Particles >14µm	ASTM D7647	>160	<b>△</b> 362	<b>▲</b> 232	<b>241</b>				
Oil Cleanliness	ISO 4406 (c)	>20/18/14	<b>24/22/16</b>	<u>\$\rightarrow\$ 23/21/15</u>	<b>23/20/15</b>				

Customer Id: ALGMIS Sample No.: WC0790722 Lab Number: 02588630 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 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We recommend you service the filters on this component.			
Resample			?	Resample in 30-45 days to monitor this situation.			
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.			
Check Seals			?	Check seals and/or filters for points of contaminant entry.			

# HISTORICAL DIAGNOSIS

#### 04 Jul 2023 Diag: Kevin Marson



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



# 06 Oct 2022 Diag: Kevin Marson



The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. 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. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



#### 23 Feb 2022 Diag: Kevin Marson





Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.All component wear rates are normal. Particles >4 $\mu$ m are severely high. Particles >6 $\mu$ m are abnormally high. Particles >14 $\mu$ m are notably high. Particles >21 $\mu$ m are notably high. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



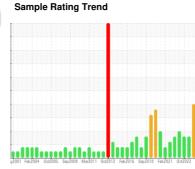


# **OIL ANALYSIS REPORT**

# **COR** LONGGEN3BRGUS

**Bearing** 

SHELL TURBO T ISO 68 (25 LTR)





# DIAGNOSIS

#### Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

#### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. 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.

g2001 Feb2004 Oct2005 Sep2008 Maz2011 Oct2012 Feb2016 Sep2018 Feb2021 Oct2022								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0790722	WC0790734	WC0681478		
Sample Date		Client Info		12 Sep 2023	04 Jul 2023	06 Oct 2022		
Machine Age	mths	Client Info		316	314	300		
Oil Age	mths	Client Info		2	9	12		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				SEVERE	ABNORMAL	ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
PQ		ASTM D8184*		0	0	0		
Iron	ppm	ASTM D5185(m)	>20	<1	<1	<1		
Chromium	ppm	ASTM D5185(m)	>20	0	0	0		
Nickel	ppm	ASTM D5185(m)	>20	<1	0	0		
Titanium	ppm	ASTM D5185(m)		0	0	0		
Silver	ppm	ASTM D5185(m)		<1	0	0		
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	0		
Lead	ppm	ASTM D5185(m)	>20	<1	<1	0		
Copper	ppm	ASTM D5185(m)	>20	2	3	1		
Tin	ppm	ASTM D5185(m)	>20	0	0	0		
Antimony	ppm	ASTM D5185(m)		0	0	0		
Vanadium	ppm	ASTM D5185(m)		0	0	0		
Beryllium	ppm	ASTM D5185(m)		0	0	0		
Cadmium	ppm	ASTM D5185(m)		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)		<1	0	0		
Barium	ppm	ASTM D5185(m)		<1	0	0		
Molybdenum	ppm	ASTM D5185(m)		0	0	0		
Manganese	ppm	ASTM D5185(m)		0	0	0		
Magnesium	ppm	ASTM D5185(m)		0	0	0		
Calcium	ppm	ASTM D5185(m)		0	9	0		
Phosphorus	ppm	ASTM D5185(m)		<1	3	0		
Zinc	ppm	ASTM D5185(m)		2	6	3		
Sulfur	ppm	ASTM D5185(m)		34	33	17		
Lithium	ppm	ASTM D5185(m)		<1	<1	<1		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>15	0	0	0		
Sodium	ppm	ASTM D5185(m)		0	0	0		
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0		
Water	%	ASTM D6304*	>2	0.002	0.001	0.001		
ppm Water	ppm	ASTM D6304*		21.5	4.5	7.2		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>10000	<b>130678</b>	<b>▲</b> 77991	<u></u> 53775		
Particles >6µm		ASTM D7647	>2500	<b>34633</b>	<u>▲</u> 16079	<b>▲</b> 8782		
Particles >14µm		ASTM D7647	>160	<b>▲</b> 362	<b>232</b>	<b>2</b> 41		
Particles >21µm		ASTM D7647	>40	45	35	54		
Tarticics >2 Tarri								
Particles >38μm		ASTM D7647	>10	2	1	1		

ISO 4406 (c) >20/18/14 **24/22/16** 

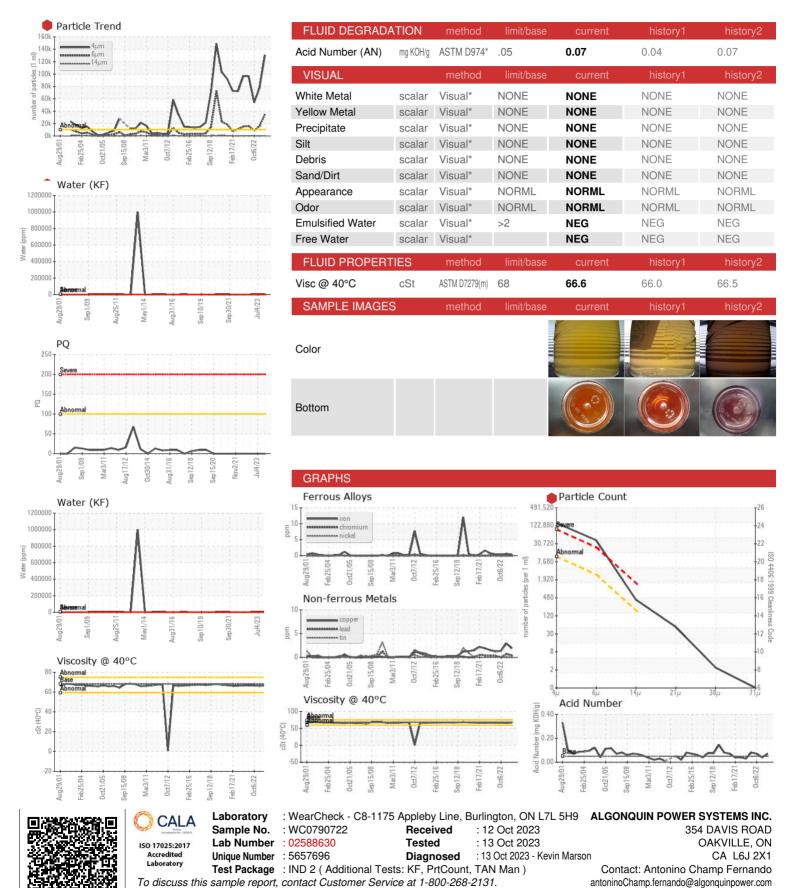
Oil Cleanliness

**△** 23/21/15 **△** 23/20/15

Contact/Location: Antonino Champ Fernando - ALGMIS



# **OIL ANALYSIS REPORT**



Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

F: x:

T: (905)465-7065