

PROBLEM SUMMARY

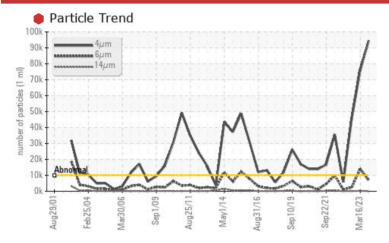
COR LONGGEN3BRGDS

Component Bearing

SHELL TURBO T ISO 68 (25 LTR)

Sample Rating Trend ISO Q2001 Feb2004 Mar2006 Sear2009 Aux-2011 Mar-2014 Aux-2012 Aux-2013 Mar-2013 Mar-2013

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	94525	<u>45568</u>	<u>^</u> 75944					
Particles >6µm	ASTM D7647	>2500	6947	2380	<u> </u>					
Oil Cleanliness	ISO 4406 (c)	>20/18/14	2 4/20/14	<u>\$\Delta\$ 23/18/14</u>	23/21/15					

Customer Id: ALGMIS Sample No.: WC0790723 Lab Number: 02588629 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. The air breather requires service. If unrated, we recommend that you replace with a ? **Check Breathers** 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

16 Mar 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. Particles >4µm and oil cleanliness are abnormally 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.



16 Mar 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. Oil Cleanliness are abnormally high. Particles >4 μ m are abnormally high. Particles >6 μ m are abnormally high. Particles >14 μ 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.



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.



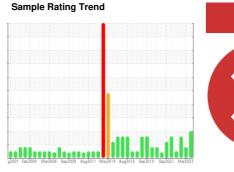


OIL ANALYSIS REPORT

Area COR LONGGEN3BRGDS

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	Mar2006 Sep2009 Aug20	11 May2014 Aug2016 Sep2019 Sep	2021 Mar2023	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0790723	WC0681490	WC0681491
Sample Date		Client Info		12 Sep 2023	16 Mar 2023	16 Mar 2023
Machine Age	mths	Client Info		311	305	305
Oil Age	mths	Client Info		11	5	5
Oil Changed		Client Info		Changed	Not Changd	Not Changd
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	4	4	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	0	0
Lead	ppm	ASTM D5185(m)	>20	0	0	<1
Copper	ppm	ASTM D5185(m)	>20	<1	<1	4
Tin	ppm	ASTM D5185(m)	>20	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	<1
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	<1	<1
Barium	ppm	ASTM D5185(m)		0	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)		<1	0	0
Phosphorus	ppm	ASTM D5185(m)		2	1	<1
Zinc	ppm	ASTM D5185(m)		<1	<1	3
Sulfur	ppm	ASTM D5185(m)		20	20	18
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1	<1	0
Sodium	ppm	ASTM D5185(m)		<1	0	<1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Water	%	ASTM D6304*	>2	0.002	0.001	0.001
ppm Water	ppm	ASTM D6304*		20.6	9.1	8.4
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	94525	△ 45568	<u>^</u> 75944
Particles >6μm		ASTM D7647	>2500	6947	2380	<u></u> 14013
Particles >14µm		ASTM D7647	>160	81	103	2 43
Particles >21µm		ASTM D7647	>40	17	32	51
Particles >38µm		ASTM D7647	>10	1	2	2
Particles >71µm		ASTM D7647		1	0	0

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

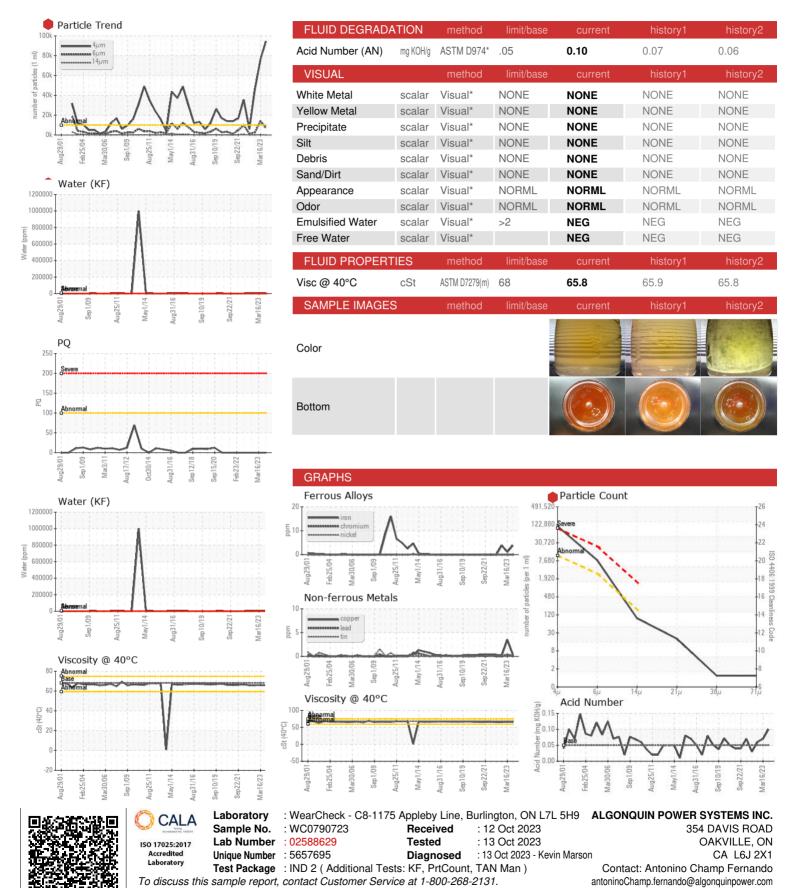
Oil Cleanliness

△ 23/18/14 **△** 23/21/15

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