









SERVICE REPORT WITH PICTURES

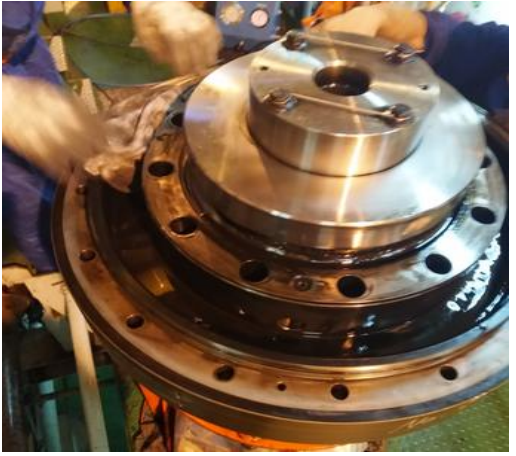



Name of Ship:	CORDELIA	Date:	20/07/2018-16/08/2018
Servcies:	ME OVERHAUL SERVICE , TYPE: 7K80MC-C		





Preface:





As per the requirement of ship's owner (Ahrenkiel Steamship GmbH & Co. KG), arranged technicians to join the ship when she calling COSCO GUANGZHOU SHIPYARD to carry out the ME overhaul service.


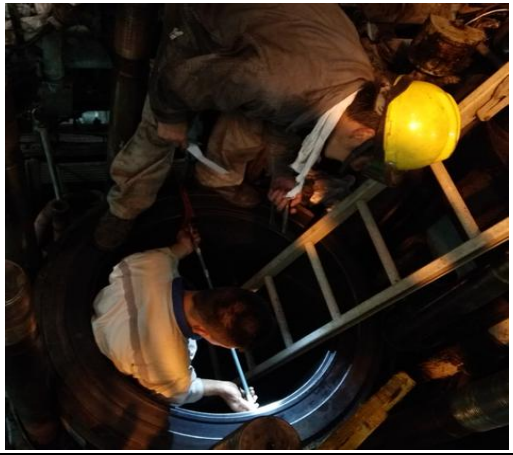


Sr. No.	Status	Description	Remarks
1		Dismantled & removed all attached pipe lines.	No.1 & No.3 unit cylinder
2		Lifted out the cylinder head & removed the cooling water jacket for cleaning.	


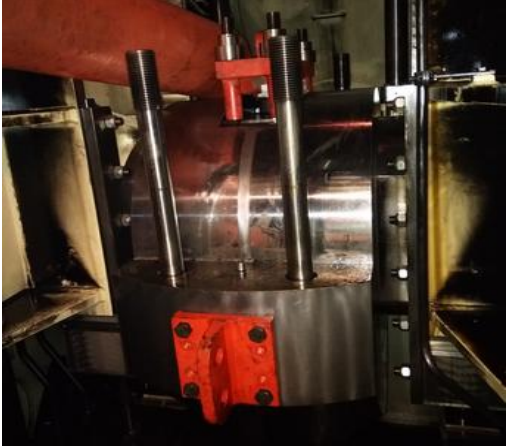
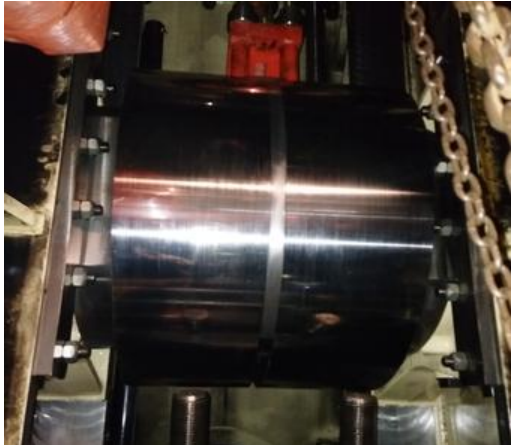

Sr. No.	Status	Description	Remarks
3		Cleaned the cooling water jacket.	
4		No.3 unit #4 piston ring broken.	unit 3
5		No.3 unit #2 piston ring broken.	unit 3
6		<ol style="list-style-type: none"> 1. Cleaned the piston properly. 2. Measured the piston groove, and the measurements were overlimit. 	unit 3 (regarding unit #1, the measurements were inside limit. And just cleaned & fitted back)



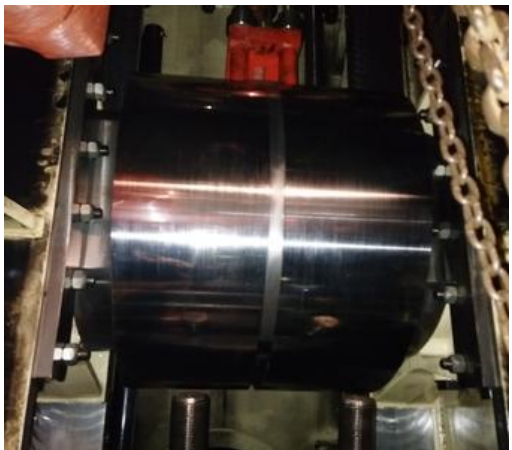
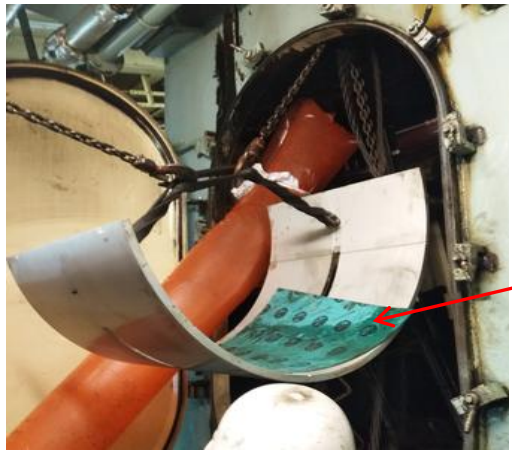
Sr. No.	Status	Description	Remarks
7		Disassembled the piston crown.	unit 3
8		Cleaned the new piston crown.	unit 3
9		The mark of new piston crown.	unit 3
10		Cleaned & changed the D-rings.	unit 3

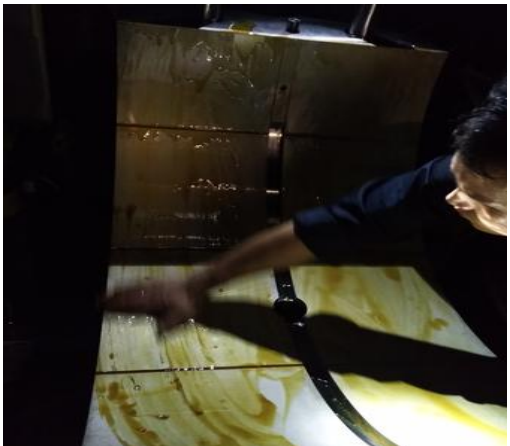

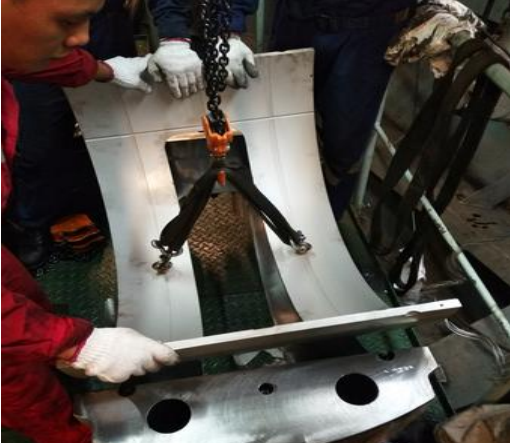

Sr. No.	Status	Description	Remarks
11		The #4 piston ring of unit 1 was broken.	unit #1
12		The mark of new piston ring.	
13		<ol style="list-style-type: none"> 1. Assembled new piston crown. 2. Pressured test of piston by 5 bar. 3. Changed to new piston rings. 	
14		Disassembled the stuffing box for overhaul.	only for unit 3


Sr. No.	Status	Description	Remarks
15		Cleaned all parts by using clean D.O	only for unit 3
16		Assembled the stuffing box after exchange the scraper ring & spring with new spare parts.	only for unit 3
17		Cleaned & inspected the cylinder liner. Took measurements.	unit 1 & unit 3
18		Cleaned the new fire ring.	

Sr. No.	Status	Description	Remarks
19		Fitted back the cleaned cooling water jacket.	
20		Took measurements of cylinder liner.	
21		Loosen the piston rod & upper cover of crosshead.	crosshead bearing shell renewal.
22		Secured the piston rod to A-frame by using special tools.	crosshead bearing shell renewal.

Sr. No.	Status	Description	Remarks
23		Shifted out the upper cover of crosshead.	crosshead bearing shell renewal.
24		Fitted special tools.	crosshead bearing shell renewal.
25		Lifted up the crosshead & secured it by using special tools & chain blocks.	crosshead bearing shell renewal.
26		Inspected & polished the crosshead with abrasive paper for metallograph. (protect the lubricating hole by covering)	crosshead bearing shell renewal.

Sr. No.	Status	Description	Remarks
27		Disassembled & removed the lower bearing shell.	crosshead bearing shell renewal.
28		Inspected the old bearing shells.	crosshead bearing shell renewal.
29		Inspected the crosshead.	crosshead bearing shell renewal.
30		<p>Shifted the new lower bearing shell inside frame.</p> <p>To protect the shell from impact of chain.</p>	crosshead bearing shell renewal.

Sr. No.	Status	Description	Remarks
31		Lubricated the lower bearing shell.	crosshead bearing shell renewal.
32		Found exfoliation of #5 lower bearing.	crosshead bearing shell renewal.
33		Fitted new upper bearing shell.	crosshead bearing shell renewal.
34		Installed the upper cover.	crosshead bearing shell renewal.

Sr. No.	Status	Description	Remarks
35		Tighten all hydraulic screws.(900bar)	crosshead bearing shell renewal.
Note:	<ol style="list-style-type: none"> 1. After completed the replacement of all crosshead bearing shells, inspected the crankcase completely. 2. Tested the ME with ship's crew, and all in normal condition. 3. All old bearing shells have been collected in wooden boxes. 		