

Service Report

General

To:		Customer:	
Vessel name:		IMO No.:	
Engineer:		Job No. :	SE-240706-47538
Date:	04/08/ 2024	Place:	Jiushun Shipyard

1. Job description

Attended on board as per customer's requirement to carry out inspection of grab when vessel docking repair in jiushun Shipyard

2. Equipment description

Equipment: 14 cbm REDIO REMOTE CONTROL GRAB

Maker: GUVEN Kepce Makine İc ve Dis Tic.Ltd

3. Service Report

3.1 Steel construction and alignment.

- All 4 grabs had been overhauled,all the pins of scoop and arms had been dismantled and clean the grease passage,all the bush of scoop pins (16pcs) and arm pins (64pcs) had been replaced.Pic.01-02

NOTES:All the greasing point should be greasing before working and apply it per 12 hours during operation

- All four grabs scoop pin gears had been applied grease by manually to avoid the gears teeth worn-out.Pic.03
- The Master link and lifting plate had been de-rusted and paint.Pic.04
- All the grab shell plate and top frame had been dismantled and performed sandblasting and paint.Pic.05
- 1section deformed plate on the **NO.2 grab** top frame had been straighten by heating.Pic.06
- 2pcs deformed steps of **NO.1&2** grab had been replaced.Pic.07
- The bottom sealing strip plate had been replaced and worn out Corner area had been repaired by building welding.the grab had been carried testing with sand,which was working in normal.Pic.08-09
- **1pcs** rubber pads of **NO.3 grab** had been fitted back.Pic.10
- All the wire of grab had been replaced during this docking repair.Pic.11

- All the wire guider group had been dismantled for maintenance,suggest to apply grease regularly.Pic.12
- All the sheaves had been dismantled for maintenance.Pic.13
- The system room door had been replaced,all the safety pins and butterfly bolts had been replaced.Pic.14
- All the kick plate had been dismantled for sandblasting and painting.
- The system room was rusty heavily ,to be descaled and paint.

3.2 Hydraulic and operation

- Operation testing had been carried,which was working in normal .Pic.15
- The hydraulic oil tank had been cleaned and the oil had been replaced.all the oil filter had been replaced before filling oil.Pic.16
- The leaking Valve block and solenoid valves of NO.4 grab had been overhauled and renew the seal kits.Pic.17
- The solenoid valves of NO.3 grab had been replaced.Pic.18
- All the hydraulic cylinder had been overhauled and renew the seal kits .the top flange had been renewed and the cylinder tube had been carried sandblasting and paint.Pic.19
- All the rubber hose and adapter had been replaced during this docking repair.Pic.20
- All the air bleeding plug had been replaced.Pic.21
- Air filter for the all 4 grabs had been replaced and the hose of NO.1 air filter had been fitted back.Pic.22
- Battery and remote control system are working in normal condition.
- All the wire socket had been dismantled and performed maintenance.Pic.23
- All the emergency manual lever had been performed maintenance and free up.Pic.24

3. Used spare

Item No.	Description/part name	Quantity	remark
1	bush for scoop pin	16pcs	ordered
2	bush for arm pins	64pcs	ordered
3	Wire rope 6x36 warringtonseale 32 mm dia. 101030105	4pcs	
5	Sheave with bearing 101010447	4pcs	ordered
6	seal kits for cylinder 101010300	4sets	ordered
7	bolts for cylinder top cover 101010300	4sets	
8	Air hose 101010595	1pcs	
9	Air filter 909000270	4pcs	
10	Hydraulic hose 1" 101010412	4pcs	ordered
11	Hydraulic hose 1" 101010411	4pcs	ordered
12	Hydraulic hose 1" 101010413	4pcs	ordered
13	Hydraulic hose 1" 101010627	4pcs	ordered
14	Bottom sealing strips	4pcs	
15	butterfly bolts for Chassis cover 101010480	8pcs	
16	safety pins for Chassis cover 101010480	8pcs	
17	rubber packing for Chassis cover 101010480	20m	
18	seal kits for valve block 101010564	1pcs	
19	air bleed	4pcs	ordered

5. Pictures



P1.the grab had been overhauled



P2. the bush had been replaced



P3. scoop pins gear apply grease



P4.master link plate had been sandblasting and paint



P5. grab shell plate had been sandblasting and paint



P6.deformed frame had been straighten



P7.step had been renewed



P8.bottom lip had been renewed



P9. lip corners area had been building welding



P10.rubber pad had been installed



P11. wire renewed



P12. wire guider group had been performed maintenance



P13. sheaves had been maintenance



P14. system room door had been renewed



P15.operation testing for grab



P16. renew the hydraulic oil



P17. valve block overhauled



P18. solenoid valves renewed



P19. cylinder had been overhauled and top flange renewed



P20. rubber hose had been renewed



P21. air bleeding plug renewed



P22. air fitter had been renewed



P23. wire socket had been maintenance



P24. emergency level had been maintenance