

## HANWA ENGINEERING CO., LTD.

9F,URBAN RESEARCH BLDG.1-6-4,KYOMACHIBORI NISHI-KU,OSAKA,JAPAN TEL:816-6444-7830 FAX:816-6444-7831 E-MAIL: operation@hanwaeng.co.ip

voucher

VESSEL NAME:	DATE:15TH MAR.2020	
	MAN DE PROPERTIES	

WE ARRANGE FOLLOWING WORKS TO SUBJECT SHIP AT YIULIAN WEIHAI SHIPYARD

SUBJECT: ALPHA LUBRICATING SYSTEM OF M/E

- 1 The pre-lubrication was carried out, and found that the system was responding normally.
- 2 Checking solenoid valve, delay from activation of solenoid valves to feedback signal (ms).

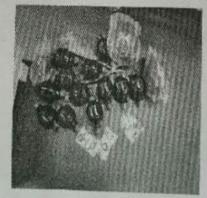
1	2	3	4	5	6	7	8	9	10	11	12
38	41.5	37.5	39	36.5	30	41	30	11	40	-	12
00	171.0	01.0	00	30,3	09	41	39	41	42	39	37

3 Check Crank angle for oil injection

5	3	4	2	6
355.8	55.7	115.7	175.9	235.7
	5 355.8			

- 4 Checking non-return valves, its normally.
- 5 All accumulators were pressure check, all empty, inlet accumulator replenish nitrogen by standard. Chang new outlet accumulator (1.5bar 12pcs) .Should be checked and recharged with nitrogen every 6 months





28bar

6 Checking plugs and intermediate box's working condition.

