

### **MERCANTILE MARITIME SOLUTIONS**

SOLUTIONS P.	TELTD		
Installatio	n / Ship Name Customer		
	ARGO SUSHEELA Allcargo shipping co pte ltd		
Location	Job Number		
	CEAN SHIPYARD VLEJ 16- 11111	<u> </u>	
	1220 20 1111		
3. <b>GENE</b>	Standard overhauling of cylinder heads Dismantle all attachments, such as valve spindle, air starting valve Send all cylinder head for chemical cleaning and decarbonising. Carry out cleaning and inspection for all dismantled components. Carry out DPI check on all cylinder heads, crack found on unit #5 inlet seat. Carry out hydro pressure testing on 16 units of cylinder head to 10 bars. No leakage was found. Valve spindles and valve seats mating surfaces found with dented marks. Carried out extraction of valve seat and insert new seat with new o-ring. One inlet rotator spring found broken.	Total	02nos
•	Renewed spring and reassembled in good order.		
•	Carried out grinding of valve seats and valve spindles.		
	Carried out lapping and blue check.		
•	Renewed valve guide O-rings.  Reassembled all components in good order.		
	reasonning an compensate in good order.		
Add	ditional work		
•	To open main #3 & #5 main bearing bottom shells for inspection, and reassemble in proper manner (bearing shells reused).	Total	02nos
	To renew inlet valve seat on unit #5 cylinder head	Total	01nos
•	Overhauling of starting valves		02nos
0	Machine grind inlet and exhaust valve seats	Total	07nos
•	Machine grind inlet and exhaust valve spindles	Total	08nos
•	Carry out chemical cleaning of cylinder head (#7) and pressure to 10 bar		01nos
	( no overhaul done and cylinder head dismantle and off landed by ship crew).		
NO	TE:		
2			
<ul><li>Tap</li><li>#3 r</li></ul>	al 02 cylinder heads were sent to ARK vision workshop as per owner instruction pet clearance was taken by ship crew.  The provided Hard polish and install back old bearing shell.  The provided Hard polish and install back old bearing shell.  The provided Hard polish and install back old bearing shell.		
Approved	by Service Engineer VSL Superintendent / C/E 14, 5, 16 VSL Stamp		

Liability of Vitalink Marine Pte Ltd for any direct, indirect, unforeseen or consequential loss or damage however caused in connection with any service provided by Vitalink Marine Pte Ltd shall be limited to the amount of the fee paid for the service.



Installation / Ship Name	Customer	
ALL CARGO SUSHEELA	Allcargo shipping co pte ltd	
Location	Job Number .	
PAX OCEAN SHIPYARD	VLEJ 16- 11111	

### AIR STARTING VALVE

Total 02nos

- Carried out dismantling of air starting valves.
- · Carried out cleaning and inspection.
- Carried out lapping on spindle and seat.
- Renewed O-rings and seals.
- Reassemble all components in good order.

### GENERAL WORK DONE (ONBOARD VESSEL)

- Carry out remove and refit of 02nos cylinder head,02nos pistons.
- Lifted and transfer all components to workshop for overhaul.
- Carried out cleaning of fire rings and reused with new O-rings.
- Carried out decarbonisation of pistons.
- Check the clearances of ring grooves and calibration for big end bore.
- Carried out liner calibrations.

### Main Bearing

 Dismantle housings and remove lower main bearings for cleaning, inspection and survey. Total 02nos

 Thereafter, refit units with old bearing shells in accordance with the maker's specification.

### **DEFLECTION**

Took deflection after completion of works.

### NOTE:

- All bearing shells reused.( as per superintendent instructions)
- All piston rings reused.( as per superintendent instructions)

M. V. ALLCARGO SUSHILA

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CHIEF ENGINEER

VSL Superintendent / C/E

VSL Stamp



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### **MAIN ENGINE**





Received 02 units of cylinder heads.





Cylinder heads after dismantling and before cleaning.



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VSL Superintendent / C/E P333

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Installation / Ship Name

ALL CARGO SUSHEELA

Location

PAX OCEAN SHIPYARD

Customer

Allcargo shipping co pte ltd

Job Number

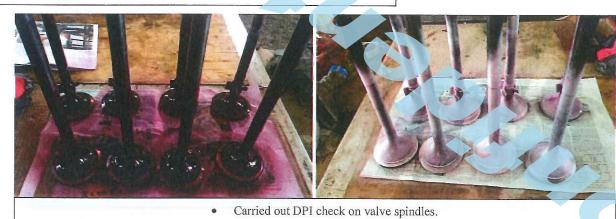
VLEJ 16-11111





one spring found broken in inlet rotator, renewed with new spring.

Components after cleaning.





Carried out DVI check on a winder head combustion surface.

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Installation / Ship Name	Customer	
ALL CARGO SUSHEELA	Allcargo shipping co pte ltd	
Location	Job Number	1
PAX OCEAN SHIPYARD	VLEJ 16- 11111	
	Found crack on unit#5 inlet valve seat.	
Approved by Service Engineer	ctract valve seat and insert new seat ring on unit #5 inlet (1pcs).  Carried out grinding on 07 nosof seats and spindles.  Carried out lapping for good scatables unfaces.  VSL Superintendent / C/E  Pargurat  VSL Stamp	



Installation / Ship Name Customer ALL CARGO SUSHEELA Allcargo shipping co pte ltd Job Number PAX OCEAN SHIPYARD VLEJ 16- 11111





Carried out water pressure test at 10 bars.





Carried out cleaning and renewed seals/o-rings.





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SOLUTIONS PIE UN

Carried out lapping on mating surfaces.

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Superintendent / C/E PBiswars VSL Stamp

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Installation / Ship Name	Customer	8 -
ALL CARGO SUSHEELA	Allcargo shipping co pte ltd	
Location	Job Number	
PAX OCEAN SHIPYARD	VLEJ 16- 11111	

### <u>UNIT - #7</u>



Carried out dismantling of cylinder head and attachments.





Components after cleaning.



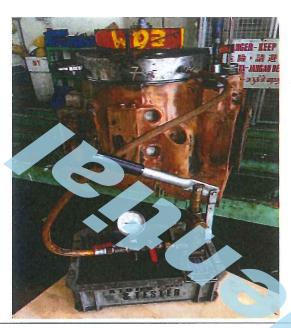
M. V. ALLCARGO SUSHILA

VSL Superintendent / C/E

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Installation / Ship Name	Customer
ALL CARGO SUSHEELA	Allcargo shipping co pte ltd
Location	Job Number
PAX OCEAN SHIPYARD	VLEJ 16- 11111



Carried out pressure test at 10 bars on owner off landed cylinder head, found no leaks.



Refit all components in good order without overhauling

M. V. ALLCARGO SUSHILA

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VSL Superment STGINEER

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Installation / Ship Name

ALL CARGO SUSHEELA

Location

PAX OCEAN SHIPYARD

Customer

Allcargo shipping co pte ltd

Job Number

VLEJ 16- 11111







- Carried out cleaning of piston.
- Check clearances of piston ring and ring groove.







- Carried out calibration of crank pin journal.
- Carried out calibration of big end bore.
- Carried out calibration of liners.



Approved by Service Engineer

### M. V. ALLCARGO SUSHILA

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VSL Superintende TYPEF ENGINEER VSL Stamp



Installation / Ship Name

ALL CARGO SUSHEELA

Location

PAX OCEAN SHIPYARD

Customer

Allcargo shipping co pte ltd

Job Number

VLEJ 16- 11111





- Open main bearing #5 for inspection.
- Refit old bearing upon inspection.





- Open main bearing #3 for inspection,
- Main journal found with deep scoring marks.
- Carried out hand polish (as per superintendent instructions).
- · Refit old bearing upon inspection.

> All works were carried out as per superintendent inspection and instructions.





### MERCANTILE MARITIME SOLUTIONS PTE LTD #14-12 International Plaza, 10 Anson Road Singapore 079903 Tel: (+65) 6224-0020 E-mail: sales@mercantile.sg Company Reg. No. 201419851N

### SERVICE REPORT AND TIME SHEET

Customer	Allcar	go Shippi	ng Co Privat	e Limited	C	ustomer W/O No		
Location	PAX	DCEAN SI	HIPYARD		. E	quipment & Brand	B&W	18-18-1
Vessel	All Ca	ırgo Sushe	ela		IV	lodel & Serial No	8L32/40	
Service Request					A-5-4-			
Detail of Service	Overh	auling of	Main Engine	Unit #1 &	%#5			
						ndard overhauli		
					ıd pressu	re tested to 10	bar for leak.	
* All attachme							1	
* Combustion						я		
*		is to be rea	assembled in	order wit	h owner'	s supplied gask	ets and carry	out hydrotesting to
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Walter Color Color						or standard ove		
l .		e un-coup	oled and with	idrawn, di	smantled	l into individual	components	, decarbonised and
cleaned for su								
* All parts incl						ibmitted.		
* Both big end			\$17.		eused.			The second secon
* On completion	on, pistons	to be reas	ssembled in	order.				
			<u> </u>					
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NOTED;								
* All bearing s								
* All piston rin	gs reused.	(As per si	uperintender	t instruction	on)	·		
			5	Control Control				
Recommendation	1							
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Date	From	То		1.00111	From	To F	rom To	
Attended By								

M. V. ALLCARGO SUSHILA
Phismas
14:5:16: Receive &

Receive the above goods in good order and conditions:

CHIEF ENGINEER

**Customers Signature and Stamp** 

MERCANTILE MÁRITIME SOLUTIONS PTE LTD



### MERCANTILE MARITIME SOLUTIONS PTE LTD #14-12 International Plaza, 10 Anson Road Singapore 079903 Tel: (+65) 6224-0020 E-mail: sales@mercantile.sg Company Reg. No. 201419851N

### SERVICE REPORT AND TIME SHEET

			OFICE		70 100	A LIIAIF SIIFFI		
Customer	AI	lcargo Ship	ping Co Priva	te Limited		Customer W/O No		
Location	PA	X OCEAN	SHIPYARD			Equipment & Brand	B&W	
Vessel	All	Cargo Sus	heela			Model & Serial No	8L32/40	
Service Reque	est			)K				
Detail of Service	ce Ov	erhauling c	f Main Engin	e				
Additional	work;							
* To open #3	3 & #5 ma	in bearing	for inspection	, rolling ou	ut the bo	ottom shell and		
re-assemble	in proper	manner. (	main bearing	reused)			Tot	al: 02 nos
* To renew :	all Inlet va	lve seat on	Aud engine #	5 cylinder	head		Tot	al: 01 nos
* Overhaulir	ng of start	ing valve					Tot	al: 02 nos
* Machine g	rind all In	let and exh	aust valve sea	it				tal: 07 nos
			aust valve spi					al: 08 nos
			cylinder head		ure test	to 10 bar	100	ui. 00 1103
(NO overha	ul done a	nd cylinder	, head was disr	mantle and	off lan	ded by ship crew)	Tot	al: 01 nos
			igine after ove					al: 01 Time
							100	di. OI Time
							<b>&gt;</b>	
NOTED;					,			
	linder he	ads were se	nd to ARC Vis	ion works	hon as n	er owner instruct		
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old bearing s	shells	id With dee	h scaring on s	urrace, ins	struction	i by superintende	nt to hand po	olish and install back
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Date	From	То	Engr.	Tech.	From	To Fro	Site to Shore	Remarks
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			-50.00					
Attended By								

under af servation-M. V. ALLCARGO SUSHILA

Paisons:
Receive the above goods in good order and constitions:

14.5.16

CHIEF ENGINEER

MERCANTILE IN

MERCANTILE MARITIME SOLUTIONS PTELTD

COUTTONS PTE LTO

Customers Signature and Stamp

WATTER A	PATIM			VESSEL NAME	Date of Document: 5/12//	5/12/2016
SOLUTIONS	F. B.	MEKCAN IILE MAK	MERCANTILE IMARITIME SOLUTIONS PTE LID	ALL CARGO SUSHEELA	Date of Inspection: Job No: VLE	VLEJ 16-11111
Document Title:	<u>a</u>	CONDITION REPORT 4 Stroke Engine Conne	CONDITION REPORT 4 Stroke Engine Connecting Rod(s) Calibration Record			
MAKER / MODEL:	DEL:	B&W 8L 32/40				
Measurement Unit:	nt Unit:	mm	Others (PIs specify):	):		
BEFORE	) RE	AFTER		8	d2 d2	1
Bank:			Cylinder number			
		1 2	3 4 5 6	7 8 9		4
		Big end	Big end bearing bore ( Deviation to be given in 1/100 mm)	n)		5
	FWD	301.97	1			
-	AFT	301.96	301.97			
0	FWD	301.97	301.96		i	
•	AFT	301.97	301.97		Big end bearing bore	
67	FWD	301.96	301.96		Hydraulic pressure / Tighting Torque	lne kg
	AFT	301.97	301.96		when tightening:	ç
4	FWD	301.97	301.97			
	AFT	301.96	301.96			
ıc	FWD	301.97	301.96	+	Nominal diameter (D) =	
,	AFT	301.96	301.96			
deviation					Maximum allowed Dia =	шш
Manufact						
Remarks					Gudgeon pin bearing bush mounted	oush mounted
		Small end bearing bush	aring bush mounted ( Deviation to be given in 1/100 mm	100 mm)	20 Miles	
d1	FWD				Nominal diameter (D) =	mm m
	AFT					
d2	FWD				Maximum allowed Dia =	шш
	AFT					50
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# ERCANTILE MARITIME SOLULIONS PTE LTD

ALL CARGO SUSHEELA VESSEL

Date of Document:	5/12/2016
Date of Inspection:	
lob No:	VLEJ 16-11111

BEFORE

AFTER

Others (Pls specify):

Piston Ring Calibration Record

B&W 8L 32/40

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Measurement Unit:

MAKER / MODEL:

CONDITION REPORT

Document Title:

H1-mm & H2-mm - Wear limit

H4-mm - Wear Limit

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		Unit	Jnit # P1			Unit	Jnit # P2			Unit	Jnit # P3			Unit	Jnit # P4			Unit	Jnit # P5	
Pos	н	A	А	S	ш	A	Д	S	ц	A	Ь	S	L	A	٩	ဟ	ш	٧	۵	ഗ
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H2	0.25	0.25 0.25 0.25	0.25	0.25													0.20	0.20	0.20 0.20 0.20	0.20
Н3	0.19	0.19 0.18	0.19	0.19													0.18	0.18 0.18 0.19 0.18	0.19	0.18
H4	0.10	0.10 0.10 0.10	0.10	0.10													0.10	0.10 0.10 0.10 0.10	0.10	0.10
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Unit # P	A					
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	Pos	H	HZ	Н3	H4	

Remarks (if any):

EME QUALITY CONT Name:

EME SERVICE ENGINEER

Name:

SHIPYARD / OWNER REPRESENTATIVE

M. V. ALLCARGO SUSHILA

Name:

CHIEF ENGINEER

VSL STAMP

TIME	B
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MHP	100

## MERCANTILE MARITIME SOLUTIONS PTE LTD

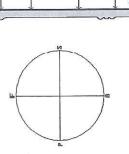
VESSEL NAME	Date of Document:	12-May-16
	Date of Inspection:	
ALL CARGO SUSHEELA	Job No:	VLEJ 16-11111

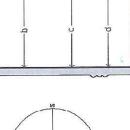
Document Title:	CONDITION REPORT
	4 Stroke Engine Cylinder Liner (s) Calibration Record
MAKER / MODEL:	B&W 8L 32/40
Measurement Unit:	mm Others (PIs specify) :

BEFORE	
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Bank:						Cylinder number	lber				
		-	2	3	4	5	9	7	8	6	
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	FWD	320.28				320.28				NO N	D.
	AFT	320.29				320.27					/
C	FWD	320.26				320.26					<i>]</i> 
7	AFT	320.27				320.27					
	FWD	320.25				320.26	,				
7	AFT	320.22				320.25					
	FWD	320.18				320.18					
4	AFT	320.15				320.15					
	FWD	320.17				320.17					
n	AFT	320.15				320.16					Nominal dian
Max, de	Max, deviation										
Manufact.											· Maximum all
Remarks											79





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allowed Dia=

VSL STAMP

-CHIEF ENGINEER SHIPYARD / OWNER REPRESENTATIVE

M. V. ALLCARGO SUSPE

Name:

Name:

EME SERVICE ENGINEER



## MERCANTILE MARITIME SOLUTIONS PTE LTD

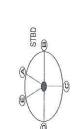
VESSEL NAME	Date of Document:	5/12/2016	
	Date of Inspection:		
L CARGO SUSHEELA	Job No:	VLEJ 16-11111	

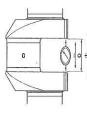
SOLUTIONS PTE LTD		ALL CARGO
Document Title:	CONDITION REPORT	
	Crankshaft Deflection Record	
MAKER / MODEL:	B&W 8L 32/40	
Measurement Unit: 0.01mm	0.01mm Others (Pls specify):	

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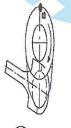
Rotation (view from flywheel end):

Condition:

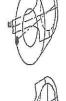












Blank	CYL#1	CYL #2	CYL#3	CYL #4	CYL #5	CYL#6	CYL #7	CYL #8	CYL #9	CYL #10
A (SB)	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00		
B (STBD side)	0.00	-0.01	0.00	00.00	00.0	0.00	00.00	0.00		
C (T.D.C)	-0.01	-0.02	0.00	0.01	0.01	-0.01	0.00	0.00		
D (Portside)	0.00	-0.02	0.02	00.00	00.0	0.01	-0.01	0.01		
E (PB)	0.00	-0.01	0.03	0.01	0.00	0.00	0.00	0.00		
F=(E+A) / 2										
(C-F)	-0.01	-0.015	0	0.01	0.01	-0.01	0	0		
(B-D)	0	0.01	-0.02	0	0	-0.01	0.01	-0.01		
Remarks										

Remarks (if any):

EME QUALITY CONTROL
Name:

EME SERVICE ENGINEER

Name:

SHIPYARD / OWNER REPRESENTATIVE

VSL STAMP

M. V. ALLCARGO SUSHILA

CHIEF ENGINEER

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# MERCANTILE MARITIME SOLUTIONS PTE LTD

Date of Document: 12-05-16 ALL CARGO SUSHEELA VESSEL NAME

Job No: VLEJ 16-11111 Date of Inspection:

7

Others (Pls specify):

Crankpin(s) Calibration Record B&W 8L 32/40

CONDITION REPORT

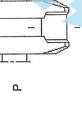
Document Title:

N BEFORE

Measurement Unit: mm

MAKER / MODEL:

AFTER



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Max wear limit

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Unit #6	AFT		
آ ا	FWD		
Unit #5	AFT	289.97 289.97	289.97 289.96
Uni	FWD	289.97	289.97
Jnit #4	AFT		
	FWD		
Jnit #3	AFT		
Uni	FWD A		
Jnit #2	AFT		
Uni	FWD AFT		
1#1	AFT	289.97	289.97
Unit	FWD	289.96	289.96
	-	T/B	P/S

	n	Jnit #7	Uni	Unit #8	iun.	Unit #9	Unit	Unit #10	Unit	Unit #11
	FWD	AFT	FWD AFT	AFT	FWD	AFT	AFT FWD	AFT	FWD	AFT
T/B										
P/S										

FWD AFT Unit #12

Remarks (if any):

QUALITY CONTROL

SERVICE ENGINEER

Name:

SHIPYARD / OWNER REPRESENTATIVE

VSL STAMP

M. V. ALLCARGO SUSHILA

Name:

PRISHER - 16 14 5 16 CHIEF ENGINEER