

# Time sheet for visit of MAN ES representative / preliminary report

PrimeServ Houston PrimeServ Florida PrimeServ Los Angeles		5		Ph.		
Name of Vessel:	Riverside			IMO No:	9412464	
Name of Yard:	STX Shipbuilding			Hull No:	3010	
Engine Type:	6 S60MC-C			Sea Trial:	2009-03-01	
Engine Builder:	STX H. I.			Engine No:	SB8031	
Job/Order No:	D.1405771			Run. hours:		
Visit by:	Jesper Petersen (JPP)			Service Center:	Houston	
Spareparts from MD:	Yes	No	x	Design Spec No:	0909398-4	
External Workforce:	Yes	No	x	ECS Version:	N/A	
Place:	Corpus Christ	i				
Period:	2021-03-16 - 2021-03-20					
Owner / Manager:	Thome Ship Management Pte Ltd					
Requested by:	Mr. Joseph P Jude on behalf of Thome Ship Management Pte Ltd					
Reason:	Engine misfire resulting in hitting the pier					
Keywords:			15			

Mar. 2021		Indication of Time		First 8 hours within normal	Overtime hours after normal	First 8 hours on Saturdays,	Overtime hours on Saturdays,	Travel time/ Waiting hours	Service on vessel in harbour	Service on seagoing vessels
Day	Date	From	То	working hours 1)	working hours 2)	Sundays and holidays	Sundays and holidays 2)		(mark X)	(mank X)
Tue	16 <sup>th</sup>	16:00	20:00	8				4	X	
Wed	17 <sup>th</sup>	07:00	20:00	8	3			2	Х	
Thu	18 <sup>th</sup>	07:00	20:00	8	4		THE AVE	1	Х	
Fri	19 <sup>th</sup>	07:00	19:00	8	4				Х	
Sat	20 <sup>th</sup>	07:00	*					*	Х	
The second			Total							

1) For work up to 4 hours, half a day will be charged. Hours in excess of 4 hours up to 8 hours, 1 day will be charged.
2) Work carried out before and after normal working hours (between 07:00 and 17:00) will be charged as overtime hours.

JPP	769
Init	Staff No.



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3) 4 hours will be invoiced for preparation and reporting.

# "CONDITIONS OF TENDER AND SALES FOR TECHNICAL SERVICE" please see last page.

Summary and preliminary conclusion.

As requested by Mr. Joseph P Jude of Thome Ship Management Pte Ltd, our superintendent engineer Mr. Jesper Petersen attended above mentioned vessel at Corpus Christi. The reason for the attendance carried out from March 16<sup>th</sup> through 20<sup>th</sup> 2021 was to investigate the failed engine response to start.

When the vessel was still moored alongside the pier, engine operations was prohibited. As such we could not test start the engine to check various systems that could have caused the incident. However, a static test of all the pneumatic control valves related to the start sequence (except the starting air distributor and related 30 bar pneumatic control valves) was completed without finding any issue in their operation.

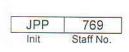
Vessel finally departed to the anchorage and the engine operated without issues. However, during preliminary test at anchorage, engine failed to start in ahead as no starting air was applied.

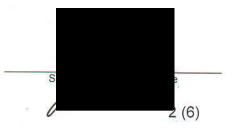
The pneumatic control valves incl. the 30 bar valves supplying air to the starting air distributor had all shown correct function since the engine started the first time when leaving the pier. However, after repeated starting attempts at anchor, it was quickly noted that starting air distributor actuator No. 6 did not move at all. After removing and dressing up the actuator and cylinder, the engine was test started again. This time, actuator No. 6 was found to operate normally. Engine was tested several times in both directions from the bridge, ECR and local control without any observed misfire.

The engine tested in Ahead / Astern from the Bridge, ECR and Local Control.

The test was conducted by bringing the engine to DS Ahead and then to crash Astern from all three control stations.

All three attempts were done to the satisfaction of the DNV surveyor.







<sup>\*)</sup> Will be added upon arrival at hotel/home/office



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### Prehistory:

The vessel suffered from misfiring during maneuvering causing the vessel to hit the pier.

### Findings:

Fuel oil viscosity found to be around 3.4 cSt. which is acceptable.

Fuel pump indexes found to be between 4 and 7 index.at engine stopped.

All cylinder liners, pistons and piston rings found in good operational condition.

The VIT STOP/ASTERN solenoid valve (No. 40) is not energized in engine STOP/ASTERN position

Starting air valves Nos. 5 and 6 found leaking slightly.

Pneumatic control valves related to starting the engine tested and found working as per design. Main starting valve found working as per design. Valve 32 adjusted to release pressure after 1 sec as per our recommendations. Please see attached STX Drawing No. 5154022410 for reference.

The control air dryer is operating but has lost its charge and subsequently do not remove any present water as per design

### Work carried out:

Scavenge port visual inspection completed on all six cylinder units.

Fuel pump puncture valves free movement checked and found in good order.

Exhaust valve air spring function tested as per our maintenance manual (drop down test) all exhaust valves passed the test.

All about mentioned pneumatic (See Findings) function tested and found working as intended. E/O sorted out the power issue to the VIT STOP/ASTERN.

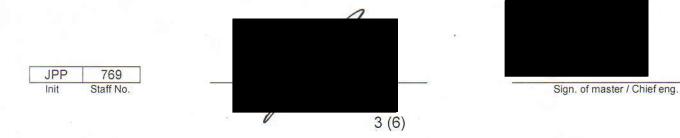
Starting air valves Nos. 5 and 6 replaced.

Actuator No. 6 was found sticking in the starting air distributor. The actuator removed and cleaned. Before mounting, the cylinder counterpart was also cleaned.

### Recommendations:

It is recommended to replace/overhaul all main engine pneumatic components every 2 years as per our recommendations. This means coming august this year

Further report to follow.





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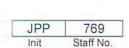
PrimeServ Houston PrimeServ Florida PrimeServ Los Angeles Best regards, MAN Energy Solutions - USA

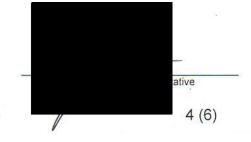
MAN PrimeServ Houston

Superintendent Engineer

MAN Energy Solutions - USA

USA Office Phone Cell Phone Email:









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9.1 The Buyer shall not, under any circumstances acquire any right in or to any of the IPRs (including, without limitation, copyright) subsisting in, resulting from or relating to Work, or any plans, descriptions, blue-prints, designs, technical information, software, documents, drawings and/or specifications relating thereto either (a) supplied by or on behalf of MAN ES to the Buyer in connection with Work, or (b) resulting from Work, unless otherwise expressly agreed by MAN ES in writing. If the Buyer shall in any way septiments are such rights to represent the Buyer shall immediately inform MAN ES and shall forthwith take such steps as may be required by MAN ES to assign auch rights or vest such title in MAN ES.

9.2 MAN ES shall have the right to apply any trademarks, trade names and/or service marks. The Buyer shall not deface, remove or obliterate any trademarks, trade names and/or service marks. The Buyer shall not deface, remove or obliterate any trademarks, trade names and/or service marks. The Buyer shall not deface, remove or obliterate any trademarks, trade names and/or service marks. The Buyer shall not deface, remove or obliterate any trademarks, trade names and/or service marks. The Buyer shall not deface, remove or obliterate any trademarks, trade names and/or service marks. The Buyer shall not deface, remove or obliterate any trademarks, trade names and/or service marks. The Buyer shall not deface, remove or obliterate any trademarks, trade names and/or service marks. The Buyer shall not deface, remove or obliterate any trademarks, trade names and/or service marks. The Buyer shall not deface, remove or obliterate any trademarks, trade names and/or service marks. The Buyer shall reported to the state of the state o

10. LIMPATION OF LIABILITY

[10.1 MAN ES shall not be liable to the Buyer in contract, tort, law or otherwise howsoever and whatever the cause thereof, (i) for any loss of profit, hire, business contracts, revenues or anticipated savings, or (ii) for damage to the Buyer's reputation or goodwill, or (iii) for any loss resulting from any claim made by any third party, or (iv) for any special, indirect or consequential loss or damage of any nature whatsoever.

[10.2 Nothing in these Conditions shall exclude or limit the liability of MAN ES for death or personal injury caused by the MAN ES's negligence, intent or fraudulent misrepresentation. In addition Condition 10.1 above shall not apply in case MAN ES has caused the damage to Buyer's property with intention or gross negligence or by fraudulent misrepresentation.

[10.2 Without prejudice to Conditions 10.1 and 10.2 MAN ES's total liability for each Order in contract, tort, law or otherwise arising by reason of or in connection with the Contract shall be limited to the value of that Order.

ILTERMINATION
IL. If the Buyer fails to make any payment when due or to perform any of its other obligations on time, MAN ES shall be entitled to suspend its performance of the Contract until the failure is remedied; and regardless of whether MAN ES elects to suspend

11. If the Buyer fails to make any payment when due or to perform any of its other obligations on time, MAN E3 shall be paid by the Buyer.

11. If the Buyer fails to make any payment when due or to perform any of its other rights MAN E3 was all the automatically extended accordingly; and
(b) any cost (including financial costs and storage, demurrage or other charges) thereby incurred by MAN E3 shall be paid by the Buyer.

11. Without prejuders to any of its other rights MAN E3 may immediately terminate the Contract if any of the following occurs or is likely to occur:

(a) suspension under Condition 11.1 continues for more than 120 days;
(b) the Buyer is no breach of any of its obligations under the Contract which, if capable of remedy, the Buyer has not remedied within 30 days of receiving written notice from MAN E5; or

(c) the Buyer is wound up or becomes insolvent or has a receiver appointed or any equivalent or analogous event occurs in any other jurisdiction or the Buyer ceases or threatens to cease to carry on business or otherwise is unable to pay its debts when they fall due.

11.3 Upon termination, howsoever arising, MAN E5 shall be entitled forthwith to suspend any further work under the Contract without any liability to the Buyer. Without prejudice to MAN ES's other remedies under the Contract, within 14 days of such a notice of termination, howsoever arising, the Buyer shall pay to MAN E5.

(a) the outstanding balance of the Contract price of the Work which has been delivered or performed, and

(b) the costs incurred or ommitted by MAN E5 as a result of the termination in performing such work which is not yet completed plus a reasonable margin to be agreed between the Parties which shall not be less than 15% of the Contract price, and

(c) the costs reasonably incurred by MAN E5 as a result of the termination.

11. Termination, expiry or completion of the Contract or any part of it, shall not affect or prejudice the provisions of Conditions 9, 10, 11, 12 and 14.

12.1 The Buyer shall provide MAN ES's personnel with assistance in obtaining official entry, exit or working permits required in the country where the Services are to be carried out and ensure that they have free access to the Site.

12.2 The Buyer shall provide MAN ES's personnel with unobstructed and safe access to the Site to enable them to perform the Work in accordance with the Contract.

12.3 The Buyer shall be responsible for ensuring the health and safety of MAN ES's personnel whith one working, working in confined spaces and with state substances hazardous to health. When MAN ES is to carry out the Work on the Site, the Buyer shall take appropriate measures to protect MAN ES's personnel from risks associated with lone working, working in confined spaces and with substances hazardous to health, When MAN ES is to carry out the Work on the Site, the Buyer shall make was attailable and hear the costs of an adequate number of fitters, local transport, lifting gear, towing, dockage, supply of electricity and similar supplies.

12.4 MAN ES may, at its sole discretion, refuse to perform the Services in conditions or surroundings that it considers may be prejudicial to the health and/or safety of its personnel and/or where the Buyer is in breach of this Conditions 12 and MAN ES shall not be liable under the Contract for any delay in or failure of felivery in such even.

12.5 The Buyer shall assume all responsibility for all acts or omissions of the Buyer's personnel and MAN ES shall not be layer's personnel and MAN ES shall have no liability with respect thereto.

12.6 The Buyer shall provide all tooks, test equipment and test facilities unless specifically stated otherwise in the Contract. Where MAN ES does supply took then the Buyer shall give all necessary assistance with the customs formalities required for the import and receptor of MAN ES's performance of the Services.

12.7 The Buyer shall to the best of its shility assist MAN ES in obtaining all necessary information concerning such local laws and regul

Customer's expense.

12.9 If suitable accommodation cannot be obtained in the neighbourhood of the Site, the time for travelling between the lodgings and the Site will be charged as working time whenever the actual time for travelling is greater than 30 minutes. In the event of the Specialist Personnel using public transport, the costs incurred thereby shall be borne by the Customer. The same shall apply to the transportation of equipment and other utilities necessary to perform the Services.

13. Export Control 13. Notwithstanding any regulation regarding force majeure, as stated in these Conditions, the MAN ES reserves the right to suspend at its sole discretion its performance at any time, in whole or in part, without incurring any liability, whenever such performance would be prevented by any applicable export or re-export control regulation (including but not limited to EU and U.S.-law, as the case may be) or where an export license required by such regulations cannot be obtained. In the event the performance of the Contract is prevented due to the above reasons for a period of more than 180 days, MAN ES or Buyer shall be entitled to terminate the Gentract to the extent the performance is prevented. In the event an export license has been denied by the responsible authorities, MAN ES for Buyer shall pay to MAN ES the price of the supplies and services performed by the MAN ES under the Contract and any cost for unavoidable commitments incurred by MAN ES with respect thereto. Any claims, rights and/or remedies of Buyer with respect to such termination shall be excluded.

13.2 MAN ES shall provide Buyer with a customs invoice and a packing list as standard shipping documents. Such documents are made out to the name of Buyer. The content and layout of such documents are defined by the MAN ES and cannot be adjusted or amended. The provision of any further information or documents which might be required by Buyer for import purposes, such as but not limited to countries of origin, HS codes (numeric codes according to the "Haternational Convention on the Harmonized System", issued by the World Customs Organization (WCO)), certificates of origin, declarations of preferential origin or other certificates shall be subject to an individual agreement. All costs for such additional information or documents shall be burne by Buyer.

14.1 MAN ES and the Buyer shall only be entitled to assign or sub-contract any of its rights or the obligations under the Contract with the prior written consent of the other.

14.2 If any term, clause, condition or part of these Conditions is found by any court, tribunal, administrative body or authority of competent jurisdiction to be illegal, invalid or unenforceable then that provision shall, to the extent required, be severed from these
Conditions and shall be ineffective without, as far as is possible, modifying any other provision or part of these Conditions and shall not affect any other provisions of the Contract which shall remain in full force and effect. The Parties are committed to replace the invalid provision by another- with respect to the commercial effect—equivalent provision, in so far as his possible.

14.3 The Contract and these Conditions shall be construed in accordance with and governed in all aspects by the laws of Switzerland, however, excluding the rules of conflicts of law and excluding the Convention of the United Nations of 11.4.1980 on Contracts for the
International Sale of Goods.

14.3 The Contract and these Conditions shall be construed in accordance with and governed in all aspects by the taws of Switzerianu, nowever, excusing the rules of conducts of naw and excusing the Contract and these Conditions with the Rules of Arbitration of the International Chamber of Commerce in Paris (ICC), by three arbitrators, appointed under such Rules. The Expedited Procedure Provisions and the Emergency Arbitrator Provisions shall not apply. The arbitration proceedings shall take place in Geneva, Switzerland in the English language. The Parties shall keep confidential the existence of the arbitration or any information or document relating thereto or disclosed therein.

14.5 The protection of your personal rights during the processing of personal data is of the utmost concern to companies in MAN Group. We process personal data in compliance with the provisions of the EU General Data Protection Regulation (GDPR) and in accordance with the legal regulations of the country in which the controller of the data processing is located.

You can find an overview over the processing of your personal data by us on the internet at https://www.man-es.com/data-protection-notice.





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- I INTERPRETATION

  1. In these Conditions the following words will (unless the context otherwise requires) have the following meanings:

  "Buyer" means the person, firm or company that has requested any Work identified in the Order:

  "Conditions" means the General PrimeSers Terms and Conditions set out herein;

  "Conditions" means any context for Work between the Buyer and MAN ES;

  "Goods" means goods supplied by MAN ES which refer to MAN ES's product range of diesel engines and turbochargers for such engines (as defined in MAN ES's tender or order acknowledgement);

  "IPRs" means any intellectual property rights of any nature including without limitation any and all inventions, patents, utility models, design rights, copyright, know how, trade secrets, confidential information, trademarks, service marks, trade names and goodwill;

  "MAN ES" means the company within MAN Energy Solutions group of companies which supply the Goods and/or Services under the Contract, which is MAN Energy Solutions SE or any of its branches or affiliates (as the case may be);

  "Order" means services supplied by MAN ES (as defined in MAN ES's tender or order acknowledgement);

  "Sier's hall mean the place where the Services are to be performed by MAN ES (osether with so much of the area surrounding the said place as MAN ES shall actually use in connection therewith

  "Specialist Personnel" mean the specialists choson by MAN ES to perform the Services. Vorks" means goods and/or Services.

  1.2 The headings in these Conditions are for convenience only and shall not affect their interpretation.

- 2 FORMATION 2.1 These General Terms and Conditions apply to the Contract and the Goods and Services to be delivered under this Contract to the exclusion of any other terms and conditions of the Buyer. Variations to the terms of any Contract will only be effective if agreed in writing. If any such agreed variation increases the time or cost to MAN ES of performing the Contract then the Contract price and/or programme will be adjusted accordingly. 2.2 Orders from Buyer are only binding on MAN ES after a written order acknowledgment has been issued and only on the conditions stated in the order acknowledgment. 2.3 All information on weight, dimensions, capacity, price, technical and other data stated in catalogues, price and according to the extent expressly stated in the order acknowledgment or in other documents forming part of the Contract expressly referring to such information.

- stated in the order acknowledgment or in other documents forming part of the Contract expressly referring to such information.

  3 DELIVERY AND NON-DELIVERY AND DELAY

  3.1 Unless otherwise expressly agreed in writing by MAN ES

   delivery times accepted by MAN ES are given in good faith but are an estimate only; and
   delivery times accepted by MAN ES are given in good faith but are an estimate only; and
   delivery of the Goods is made. EX Works\* in accordance with Incoterns 2010, but the delivery price is exclusive of packing, which will be charged extra.

  3.2 Performance of the Services shall be at the Six specified in MAN ES is cludled in MAN ES i

- 4 TITLE
  Unless MAN ES has been paid in full in advance, the Work will be considered as having been made with MAN ES retaining the ownership until full payment has been effected by the Buyer under all contracts between MAN ES and the Buyer. If the Buyer does not pay when due, MAN ES is entitled to take back the Goods without a court judgment in accordance with the applicable law.

- 5.PRICE AND BINDING PERIOD OF QUOTATIONS AND TENDERS
  5.1 Unless otherwise agreed, quotations and tenders lapse after 30 days from their date.
  5.2 Unless (fixed prices have been agreed in writing by MAN ES, all sakes are made at the prices valid at the date of MAN ES's tender or the date of MAN ES's order acknowledgement (as the case may be).
  5.3 MAN ES shall neither the entitled nor obliged to implement changes in the scope of supply, before the Parties have reached an agreement regarding the corresponding adjustment of the Contract price and the delivery time.
  5.4 Unless otherwise agreed in writing by MAN ES prices set out in any of MAN ES's price lists, tenders or order acknowledgement are Ex Works (Incoterms 2010) and exclusive of any taxes, duties, fees, charges or similar and any costs of carriage, package and insurance which shall be payable in addition to the price.
  5.5 Unless otherwise agreed by MAN ES in writing, sums payable by the Buyer to MAN ES shall feel the livoke. If any sum payable under the Contract is not paid when due then without prejudice to MAN ES's other rights under these Conditions, such sums shall bear interest from the due date until payment is made in full, both before and after any judgment, at 8% per annum over the rate of the main refinancing facility of the European Central Bank in force on the due date of payment.
  5.6 MAN ES shall be entitled, upon request, to an advance payment of 50 % of the Contract price, unless another percentage rate will be agreed upon between the Parties. This advance payment shall be effected by the Customer to MAN ES's account, or, according the MAN ES's chair to the Work.

### 6 PROVISION OF SERVICES

- 6 PROVISION OF SERVICES
  6.1 Unless otherwise expressly agreed in writing Services rendered by MAN ES shall be charged on time basis in accordance with MAN ES's general rates for personnel valid at the date of the provision of the Services, Such rates are exclusive of board, lodging and transportation and such other facilities as are to be provided by the Buyer free of charge. All travelling expenses and costs of carriage of luggage, instruments and tools incurred by MAN ES's personnel shall be finally borne by the Buyer. Unless otherwise agreed MAN ES's execution of Services is subject to manual assistance being rendered by the Buyer either through engine room staff or other persons made available by the Buyer.
  6.2 The taking-over of the Works by the Buyer shall be deemed to have taken place at the latest, when the Buyer has received MAN ES's notice that the Work is as required for taking-over according to the Contract. Minor deficiencies which do not affect the efficiency of the Work shall not prevent taking-over. The period, referred to in Condition 7.1 shall start to run at the latest when the Work is ready for taking-over in accordance with this Condition 6.2.
  6.3 MAN ES shall be responsible for the adherence to legal or other regulations applicable at the Site only as far as the Customer has sufficiently informed MAN ES of such regulations in advance.
  6.4 The daily working time shall be arranged by the Customer and the Specialist Personnel at the Site, and the actual working time shall be certified on work sheets by the Customer.
  6.5 MAN ES receives the right to send interim bills during longer service jobs. The final accounts shall be submitted to the Customer within a reasonable period after the completion of the Works by MAN ES.

- 7.1 MAN ES warrants for a period of 6 months (i) from the date the Goods were delivered, that such Goods are free from substantial defects in materials or manufacture; and/or (ii) from the date the Services were rendered, that such Services were carried out with

- 7.1 MAN ES warrants for a period of 6 months (i) from the date the Goods were delivered, that such Goods are free from substantial defects in materials or manufacture; and/or (ii) from the date the Services were rendered, that such Services were carried out with reasonable skill and care.

  7.2 All conditions, warranties or other terms whether express or implied, statutory or otherwise, inconsistent with Condition 7.1, are hereby expressly excluded to the fullest extent permitted by law.

  7.3 The warranty give in Condition 7.1 will not apply:

  (a) where the defect complained of arises from any drawing, design, specification or intellectual property right supplied by the Buyer or arises from normal wear and tear, wilful damage, the Buyer's negligence, abnormal working conditions, or misuse or alteration or repair of the Goods without MAN ES's approval or arises from any failure to follow MAN ES's advice (whether oral or in writing or whether relating without limit to the fabrication, operation, use or maintenance of the Goods);

  (b) if MAN ES or its agent is not given a reasonable opportunity to safely inspect the Work;

  (c) if the total price for the Goods or Services has not been paid by the duc date for payment;

  (d) if the Goods supplied by MAN ES are mounted in a MAN ES engine for which the Buyer has also used unoriginal parts (i.e. parts which have not been supplied through MAN ES or through a MAN ES idensee), in which case MAN ES does not assume any liability for any damage which may arise.

  7.4 The obligations of MAN ES under the Contract are limited such that in the event of a breach by MAN ES of the warranty in Condition 7.1 or any defect in any Goods or Services MAN ES shall only be obliged (and shall have no further liability in contract, earlies of otherwise for any defect in quality of the Goods and/or Services) at its option either to:

  (a) credit the price (if already paid) attributable to the faulty Goods or Services) at its option either to:

  (b) repair, rectify or replace the faulty Goods or Se

8 FORCE MAJEURE
8.1 In case of Act of God, labour disputes, civil commotion, governmental or official actions or any other event which was unforesceable or outside the reasonable control of the Party affected, the Parties shall be temporarily relieved from their obligations during the period of time such events continue and to the extent their liabilities are affected. The afore-stated shall also be applicable to MAN ES if a sub-supplier of MAN ES is affected by such event and/or in case the Party concerned is already in default.
8.2 The Parties are committed to give each other the necessary information which may reasonably be expected without delay, and to adjust their obligations in good faith to the changed circumstances.

### 9 INTELLECTUAL PROPERTY RIGHTS AND CONFIDENTIALITY

