



AOS SAPHIRE



Atlantic Maritime Group FZE

www.atlanticnavigation.com

GENERAL PARTICULARS

Year of Build / Place	: 2018 / China
IMO Number	: 9818486
Call Sign	: 3E06
Flag / Port of Registry	: Panama / Panama
Class	: ABS
Notation	: ⚡ A1, AH, FFV 1, OSR – C2, Offshore Support Vessel, Supply – HNLS, TOW, Ⓢ, ⚡ AMS
GRT / NRT	: 1835 / 550
Vessel Manager	: Atlantic Maritime Group

DIMENSIONS

Length OA	: 58.00 m
Length BP	: 52.75 m
Breadth	: 16.00 m
Depth	: 5.60 m
Draft (Maximum)	: 4.40 m
Displacement @ Max. Draft	: 3068.22 Tons
Deadweight	: 1512.22 Tons
Operational Draft	: 3.20 m
Displacement @ 3.2 m Draft	: 2100.00 Tons
Deadweight @ 3.2 m Draft	: 544.00 Tons
Lightship	: 1556.00 Tons

MACHINERY

Main Engine	: 2 x Caterpillar 3516 C-HD @ 1600 RPM Total: 4894 BHP; 3650 kW
Gear Box	: Reintjes GMBH – LAF 873L K41A
Shaft Generator	: 2 x Leroy Somer LSAM 49.3 M6, 600 kW, 440 V, 60 Hz
Main Generator	: 3 x Cummins KTA19 – DM 1, 425 kW @ 1800 RPM
Main Alternator	: 3 x Leroy Somer LSAM 47.2 M7, 440 V, 60 Hz
Emergency Generator	: 1 x Cummins 6BT5.9 – D (M), 90 kW @ 1800 RPM
Emergency Alternator	: 1 x Leroy Somer LSAM 44.3 S5, 440 V, 60 Hz
Propellers	: 2 x CAT Twin Fin, MPP 690, 4 Bladed; CPP
Rudders	: 2 x High Lift Flap Spade Type
Bow Thrusters	: 2 x CAT Twin MTT113 CL-02, 400 kW, 6 Tons Thrust, CPP
Steering Gear	: 2 x JASTRAM Electro Hydraulic

DECK MACHINERY & EQUIPMENT

Deck Crane	: 1 x Pedestal Mounted Crane
Maximum Boom Outreach	: 12 m
Minimum Boom Outreach	: 2.1 m
Hoisting Speed	: 20 m / min
Safe Working Limit	: 4 Tons @ 2 m - 9 m (Retracted) 3 Tons @ 9 m - 12 m (Extended)
Windlass	: 1 x MacGregor, Electro Hydraulic; Duty Pull: 10 Tons @ 9 m / min Rated Pull: 6 Tons @ 15 m / min Double Gypsies with Double Warping Ends Brake Holding @ 43.0 Tons
Capstans	: 2 x MacGregor; Hydraulic; 5 Tons @ 15 m / min
Anchors	: 2 x 1520 KG
Chains	: Total of 660 m; 34 mm (Dia), Stud Chain Link 12 Shackles each (P&S)
Tugger Winch	: 2 x MacGregor; 10 Tons each @ 15 m / min Brake Holding @ 15 Tons

CAPACITIES & PERFORMANCE

Potable Fresh Water	: 569.80 m3
Fuel Oil	: 367.40 m3
Water Ballast / Drill Water	: 506.40 m3
Mud Tank	: 311.30 m3 (Equipped with Agitators)
Bulk Storage Tank	: 130.00 m3
Foam Tank	: 5.50 m3
Dispersant Tank	: 21.4 m3
WB / DW / Fire / GS Pump	: 2 x 100 m3 / hr @ 100 m Head
Fresh Water Cargo Pump	: 2 x 100 m3 / hr @ 100 m Head
Fuel Oil Cargo Pump	: 2 x 100 m3 / hr @ 100 m Head
Mud Pump	: 2 x 70 / 50 m ³ / hr @ 17.50 / 5.0 Bar
Free Deck Space	: 360 m2
Design Deck Load	: 5.00 Tons / m2
Deck Cargo Capacity	: 450 Tons
Speed	: 12.00 knots @ MCR 8.50 knots @ CSR
Fuel Consumption	: 16.00 m3 / day @ MCR 11.00 m3 / day @ CSR
Bollard Pull	: 64.27 Tons
Starting & Deck Air Compressor	: 2 x HL2 / 77A; 30 Bar
Bulk Air Compressor	: 2 x Atlas Copco 13 m3 / min @ Max 7.4 Bar
Sewage Treatment Plant	: WCMBR – 30 (U), 30 Persons, Discharge Pump – 3 m3 / hr @ 3 Bar
Oily Water Separator	: 1 x YSZ1.0, Discharge Pump – 1.0 m3 / hr
Fresh Water Maker	: HSRO – 08B, Capacity – 8 m3 / day
Power Supply Sockets (Deck)	: 2 x 440 V; 2 x 220 V; 50A (Appleton model)

GALLEY & LAUNDRY

Electric Cooking Range	: 1 x 4 Hot Plates
Refrigerator Capacity	: 300 Litres
Freezer Capacity	: 10.20 m ³
Chiller Capacity	: 12.50 m ³
Electric Water Boilers	: 2 x 30 Litres
Washing Machines & Dryers	: 3 x 10 Kgs & 3 x 10 Kgs
Foldable Iron	: 1 with Ironing Table

NAVIGATION & COMMUNICATION EQUIPMENT

Weather Fax Receiver	: 1 x Furuno – FAX – 408
Fixed VHF (GMDSS)	: 3 x FM 8906S
Portable VHF	: 3 x Entel HT 544
MF/ HF/ DSC	: 1 x Furuno – FS – 2575
Rig Move Fixed UHF	: 1 x ICOM IC F5023H UHF
Navtex	: 1 x Furuno – NX – 700A
Auto Pilot	: 1 x Anschutz X Nauto Pilot Star D NP 60
Magnetic Compass	: 1 x Anschutz Reflecta
Gyro Compass	: 2 x Anschutz X Standard 22
AIS	: 1 x Furuno – FA – 170
GPS	: 1 x Furuno – GP – 170
EGC	: 1 x Furuno – Felcom 18
SSAS	: 1 x Furuno – Felcom 18
GMDSS	: Area A1 + A2 + A3
2 Way VHF Telephone	: 3 x IC – GM 1600 E
Inmarsat C	: 1 x Furuno – Felcom 18
Radar	: 2 x Furuno (X and S Band)
EPIRB	: 1 x Ocean Signal E100
SART	: 2 x Ocean Signal S100
Chart Plotter	: 1 x Garmin GPSMAP7412

58.00 m / 4800 BHP / Anchor Handling Tug / Towing / Fi-Fi 1 / OSR – C2

TOWING / ANCHOR HANDLING

Anchor Handling / Towing Winch : 1 x MacGregor; Hydraulic; Double Drum Waterfall
Wire Rope – 2 x 600 m x 54 mm
Line Pull @ 120 Tons & Brake Holding @ 150 Tons
Shark Jaw : MacGregor; Hydraulic; SWL – 200 Tons
Towing Pin : 2 x MacGregor; Max. Line Load – 200 Tons
Stern Roller : 1 x 200 Tons; 5.8 m (Length) x 1.7 m (Diameter)

FIRE FIGHTING & SAFETY EQUIPMENT

Fi-Fi Pumps : 2 x 1600 m³ / hr @ 120 m Head
Fi-Fi Monitors : 2 x 1200 m³ / hr with Remote Control
Fixed CO₂ System : In Engine Room, Paint Locker & Galley
Rescue Boat & Davit : 1 x 9 Pax FRC (Open Type) & Single Arm Davit
Life Rafts : 6 x 15 Persons (Inflatable – Throw Type)
Life Buoys : 8 Nos
Fire Hydrants : 15 Nos (11 x 40 NB & 4 x 50 NB)
Life Jackets : 30 Nos
Search Light : 3 x 2000 Watts
Flood Light : 16 x 500 Watts & 4 x 400 Watts

ACCOMMODATION

1 Man Cabin : 4 Nos
2 Man Cabin : 11 Nos
Total : 26 Person
Hospital : 1 No
Recreation Room : 1 No
Mess Room : 1 No
Office : 1 No

All Cabins are Fully Air Conditioned

OIL SPILL RECOVERY EQUIPMENT (LAMOR I)

Primary System : 1 x Side Collector - LSC 3C / MKII - 222536
Capacity 152 m³ / hr
Primary Oil Transfer Pump : 1 x GTA PDAS - 226149
Capacity - 140 m³ / hr @ 10 bar
Spare Pump of same Capacity
Discharge Pumps : 2 x Oil Discharge Pumps with
Capacity - 140 m³ / hr @ 10 bar each

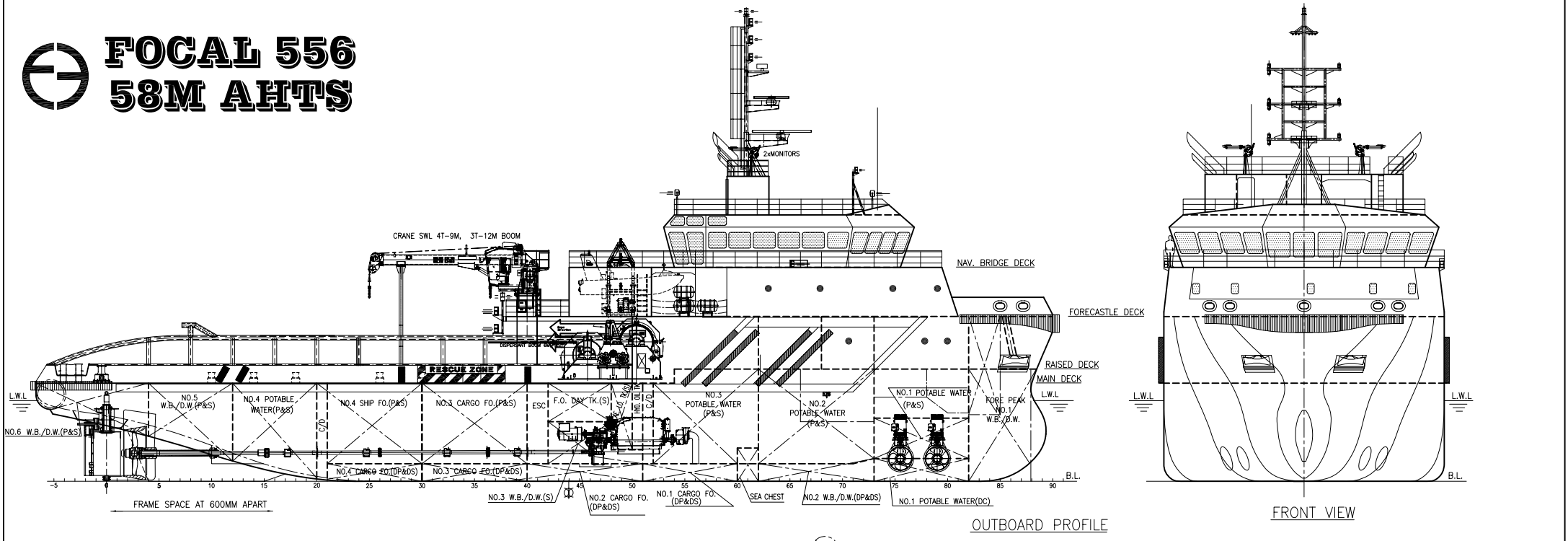
OIL SPILL RECOVERY EQUIPMENT (LAMOR II)

Decanting System : 1 x Decanting Pump with 5m Suction
Hose and 10m Discharge Hose
Portable Cleaning System : 1 x Portable High Pressure Hot Water Cleaning
System Provided with Machines, with a flow range of
0.81 m³ / hr @ 100 Bar
Dispersant Spray System : 1 x Dispersant Pump with Flow Meter LDS 150E-SA-3
2 x Dispersant Spray Arms of Aluminum 12 m Length
Interface System : 1 x Oil Water Interface Detector Ullage Temp UTI Meter
Oil Spill Detection Radar : 1 x Rutter RADAR FLIR Camera
Detection Range of 4NM



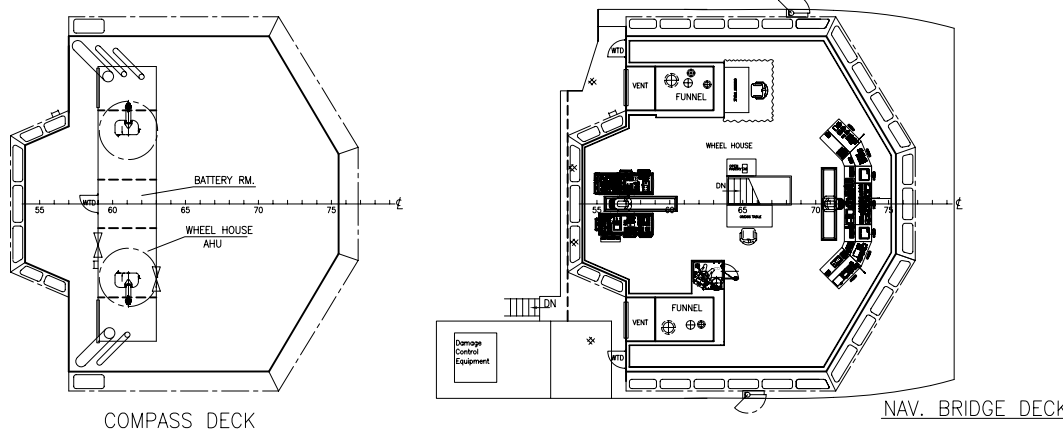
16. General Arrangement

FOCAL 556 58M AHTS



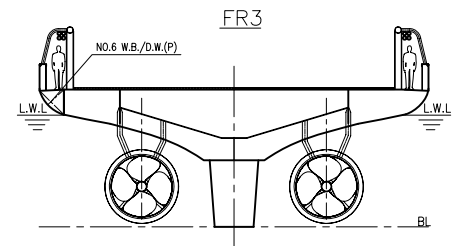
OUTBOARD PROFILE

FRONT VIEW

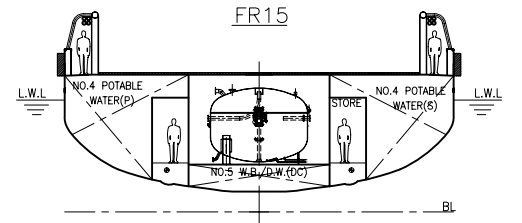


COMPASS DECK

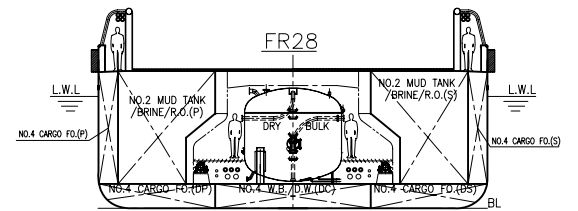
NAV. BRIDGE DECK



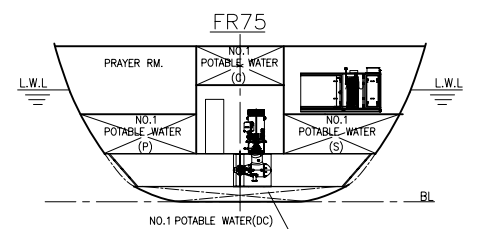
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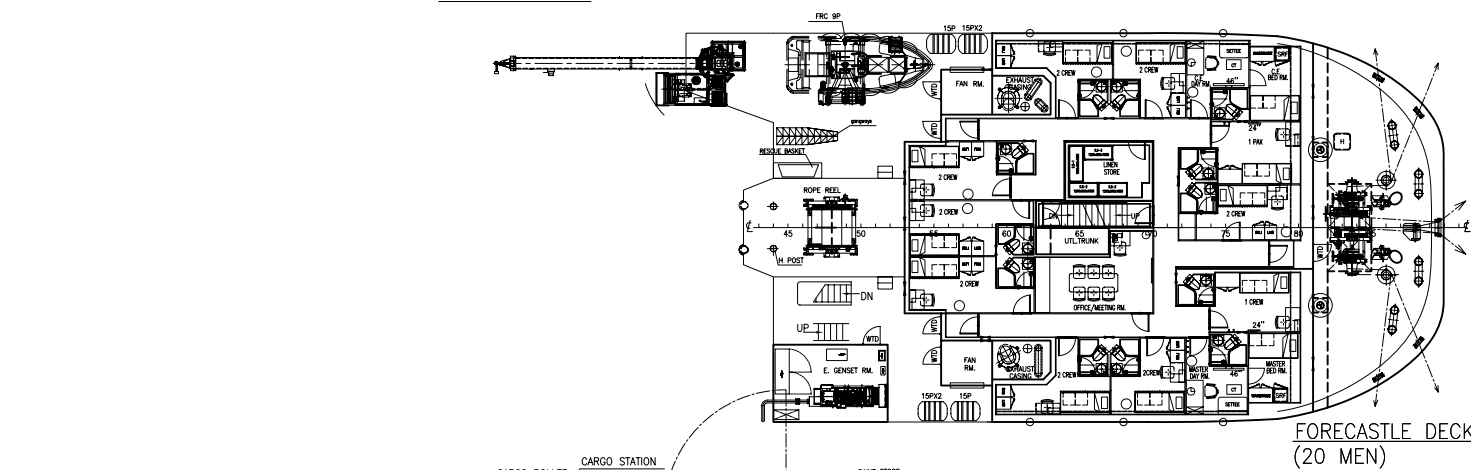
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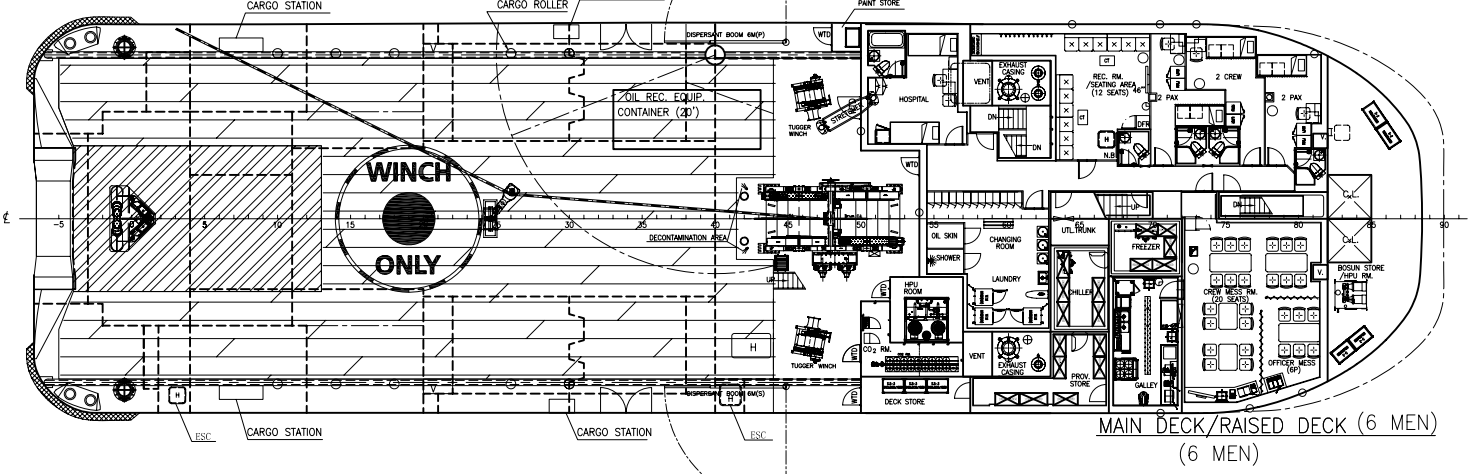
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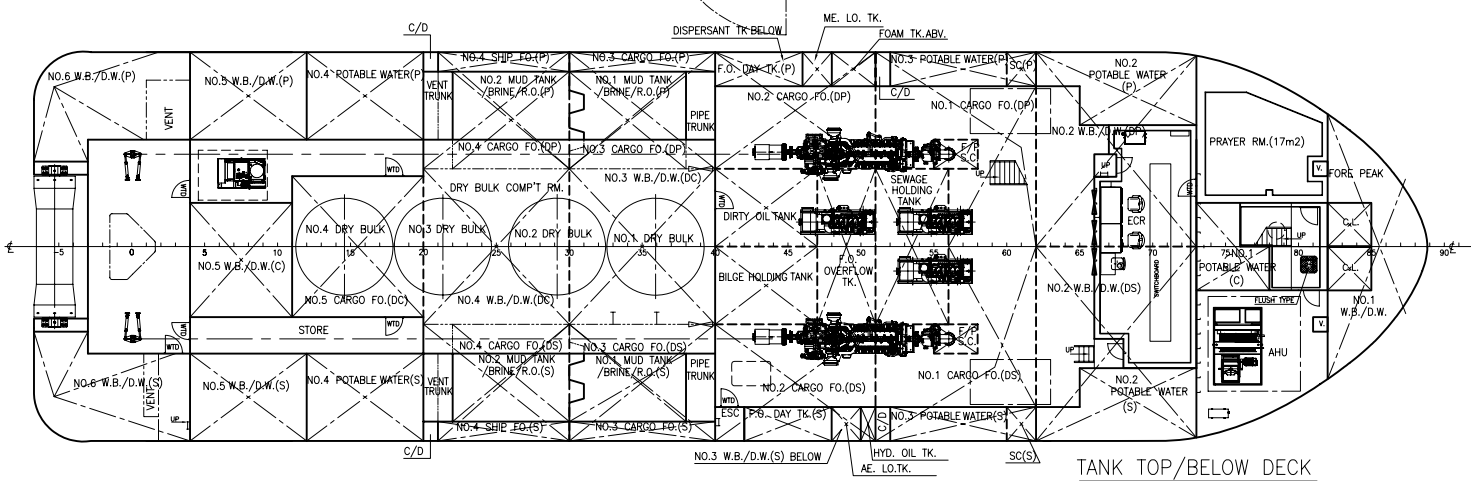
FR75



FORECASTLE DECK (20 MEN)



MAIN DECK/RAISED DECK (6 MEN)



TANK TOP/BELOW DECK

CLASS: ABS \otimes A1 \oplus OFFSHORE SUPPORT VESSEL,
(SUPPLY-HNLS,
AH,
TOW,
OSR-C2,
FFV 1)

\otimes AMS
UWLD
RW

9	AMENDED AS PER BUILT ON SITE	YARD	MAR-02-2018
8b	AMENDED AS PER ABS COMMENTS	ZF	OCT-20-2017
8a	AMENDED AS PER OWNER COMMENTS	ZF	OCT-20-2017
REV NO.	REVISION DESCRIPTION	BY	DATE

OWNER
ATLANTIC MARITIME GROUP FZE

BUILDER
WUCHANG SHIPBUILDING INDUSTRY CO., LTD
HULL NO.: BG0016A09M/BG0017A09M

PROJECT
58M SHALLOW DRAFT ANCHOR HANDLING TUG / SUPPLY / SAFETY STANDBY VESSEL 'FOCAL 556'

APPROVE	DWG TITLE:	JOB NO.:
VERIFIER	GENERAL ARRANGEMENT	DWG NO.:
CHECKER		SCALE :
DRAWER	ZF	CLASS :

FOCAL MARINE & OFFSHORE

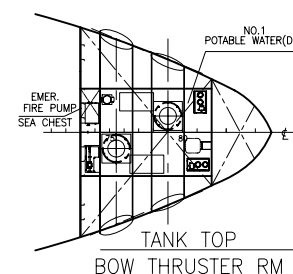
SHANGHAI TEL: 86-21-58705786 FAX: 86-21-50313265
SINGAPORE TEL: 65-68481387 FAX: 65-68481291

PRINCIPAL PARTICULARS

LENGTH OA _____ 58.00 M
LENGTH BP _____ 52.75 M
BEAM MLD. _____ 16.00 M
DEPTH MLD. _____ 5.60 M
DRAFT DESIGNED _____ 4.40 M
DRAFT SCANTLING _____ 4.60 M
COMPLEMENT _____ 26 MEN
MAIN ENGINE _____ 2 x 2,400 HP
SERVICE SPEED _____ 10.5 KTS
BOLLARD PULL _____ 60 T

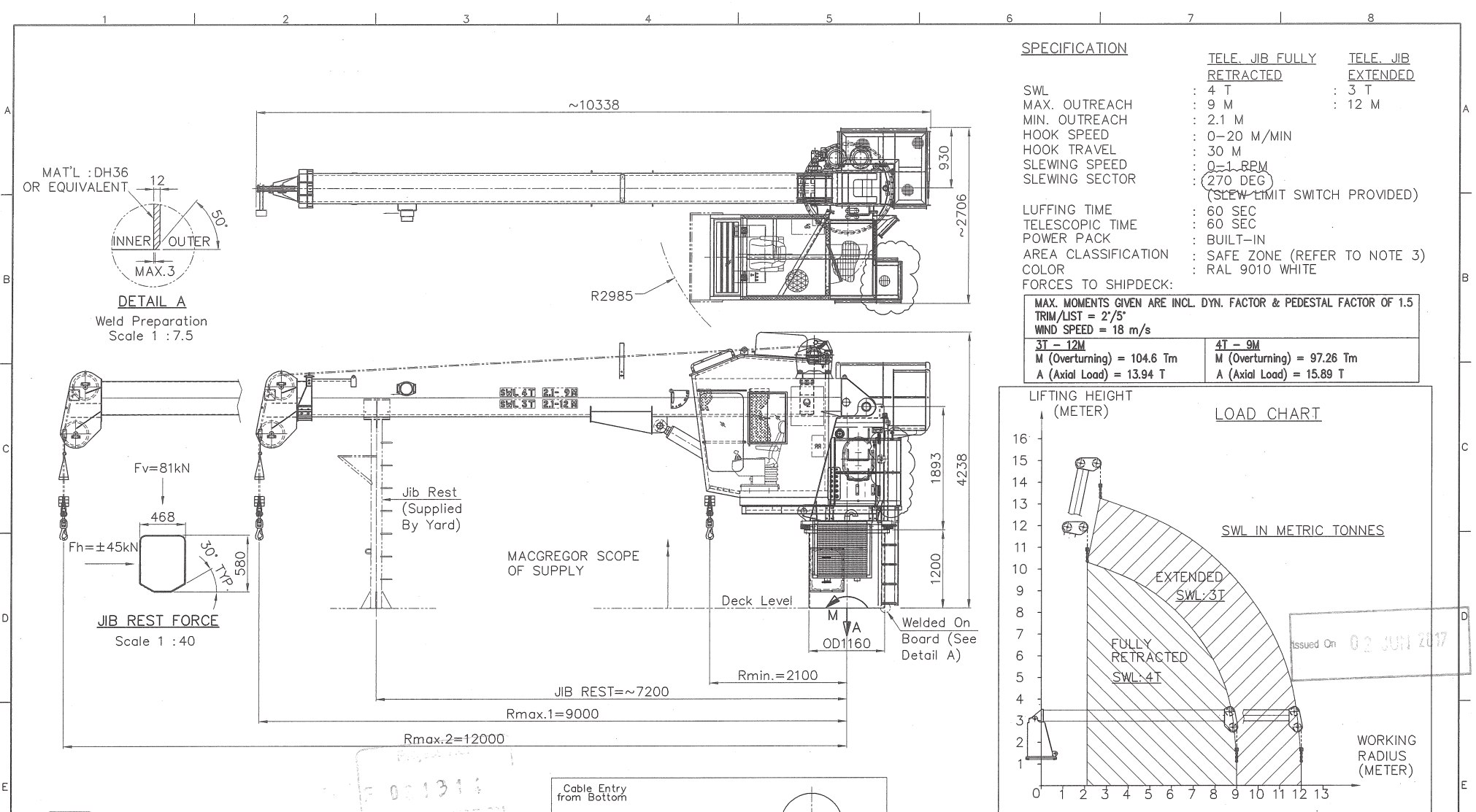
APPROXIMATE CARGO CAPACITIES

DEADWEIGHT(3.2M) _____ ABV. 400 T
MAX. DEADWEIGHT _____ ABV. 1,200 T
CARGO DK AREA _____ 360 M² @ 5 T/M²
DECK CARGO _____ 450 T
SHIP FO/CARGO FO _____ 350 M³
WB/DW _____ 300 M³
POTABLE WATER _____ 500 M³
MUD/BRINE/REC. OIL _____ 250 M³
DRY BULK _____ 130 M³



TANK TOP BOW THRUSTER RM

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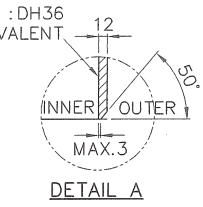
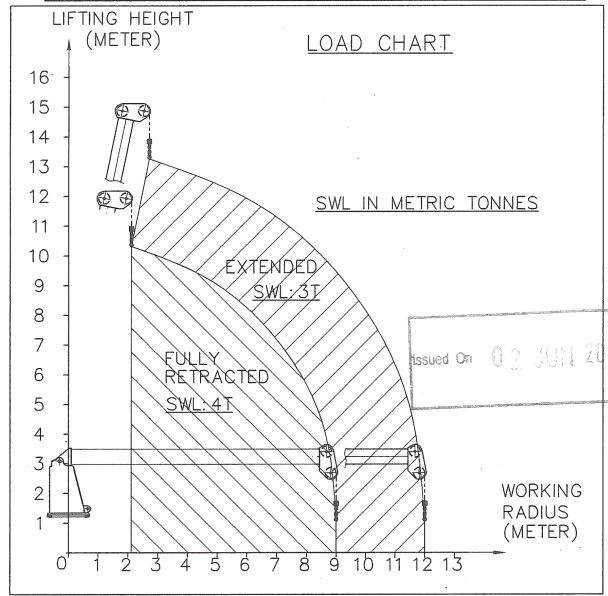


SPECIFICATION

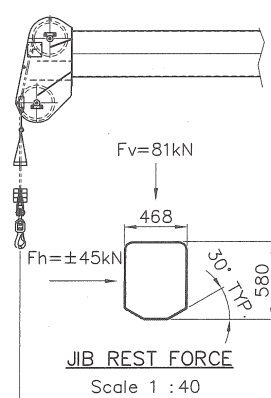
	TELE. JIB FULLY RETRACTED	TELE. JIB EXTENDED
SWL	: 4 T	: 3 T
MAX. OUTREACH	: 9 M	: 12 M
MIN. OUTREACH	: 2.1 M	
HOOK SPEED	: 0-20 M/MIN	
HOOK TRAVEL	: 30 M	
SLEWING SPEED	: 0-1 RPM	
SLEWING SECTOR	: 270 DEG	
	(SLEW LIMIT SWITCH PROVIDED)	

LUFFING TIME	: 60 SEC
TELESCOPIC TIME	: 60 SEC
POWER PACK	: BUILT-IN
AREA CLASSIFICATION	: SAFE ZONE (REFER TO NOTE 3)
COLOR	: RAL 9010 WHITE
FORCES TO SHIPDECK:	

MAX. MOMENTS GIVEN ARE INCL. DYN. FACTOR & PEDESTAL FACTOR OF 1.5	
TRIM/LIST = 2/5°	
WIND SPEED = 18 m/s	
3T - 12M	4T - 9M
M (Overturning) = 104.6 Tm	M (Overturning) = 97.26 Tm
A (Axial Load) = 13.94 T	A (Axial Load) = 15.89 T

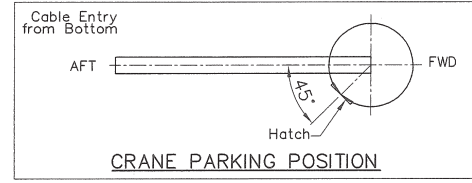


Weld Preparation Scale 1 : 7.5



JIB REST FORCE Scale 1 : 40

MACGREGOR SCOPE OF SUPPLY



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
2. THIS CRANE IS DESIGNED IN ACCORDANCE WITH ABS'S GUIDE FOR CERTIFICATION OF LIFTING APPLIANCES, 2016.
3. ALL ELECTRICAL COMPONENTS ON THE CRANE BOOM AND BLOCK SHALL BE RATED FOR OPERATION IN ZONE 1.

	© MACGREGOR PTE. LTD. OFFSHORE WINCHES (REGISTRATION NUMBER 2013116330) ADDRESS : No.15 TUKANG INNOVATION DRIVE SINGAPORE 618299 TEL: (65) 65973888 FAX: (65) 65973513	GENERAL TOLERANCES: ACCORDING TO ISO 2768 <table border="1"> <tr> <td>RANGE</td> <td>0.5-3</td> <td>OVER 3-6</td> <td>OVER 6-30</td> <td>OVER 30-120</td> <td>OVER 120-400</td> <td>OVER 400-1000</td> <td>OVER 1000-2000</td> <td>OVER 2000-4000</td> </tr> <tr> <td>M/C</td> <td>±0.1</td> <td>±0.1</td> <td>±0.2</td> <td>±0.3</td> <td>±0.5</td> <td>±0.8</td> <td>±1.2</td> <td>±2</td> </tr> <tr> <td>UN M/C</td> <td>±0.2</td> <td>±0.3</td> <td>±0.5</td> <td>±0.8</td> <td>±1.2</td> <td>±2</td> <td>±3</td> <td>±4</td> </tr> </table>	RANGE	0.5-3	OVER 3-6	OVER 6-30	OVER 30-120	OVER 120-400	OVER 400-1000	OVER 1000-2000	OVER 2000-4000	M/C	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	UN M/C	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	±4	TITLE : HYDRAULIC TELESCOPIC SHIPBOARD CRANE GENERAL ARRANGEMENT
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