



**德泽船舶资料 VESSEL SPECIFICATION OF DE ZE**

<b>常规 GENERAL</b>	
船名 Name of ship	德泽 / DE ZE
船东 Owner	Shanghai Salvage Co.
公司地址 Owner address	No.1426 Yangshupu Road Shanghai, China
联系电话 Telephone Number	+86-021-65704492
建造年月 Date of Build	2009-07-13
建造船厂 Shipbuilder	福建东南造船厂 / Fujian southeast Shipyard, China
呼号 Call Sign	BQDQ
国籍 Nationality	中国 / China
船籍港 Port of Registry	上海/SHANGHAI
船级 Classification	China Classification Society,towing vessel,fire fighting vesselclass 1,offshore support vessel Anchor Handling,DP-2
船舶登记号 Registered No.	09K0307
海上移动识别码 MMSI No.	413046180
IMO 编号 IMO No	9516961
船舶种类 Kind of Ship	多用途拖轮 / Rescue,Supply,Anchor-handling Tug
总吨位 Gross Tonnage	2921
净吨位 Net Tonnage	876
航区 Sailing Area	World-wide
两柱间长 Length BP	64.80 m
船舶主尺度 Principal Dimensions	LOA (72.50m) / B (17.0m) / D (7.5m)
吃水(船/艏)	满载 Full 6.488m
Draft (Fore/Aft)	空载 Light 3.511m
主机功率 Power of Main Engines	4500kw x 2 (total: 9000kw,12000BHP)
续航力 Endurance	12000 N miles
系柱拖力 Bollard Pull	150 Tons
<b>船舶通信资料 SHIP COMMUNICATION DETAILS</b>	
TEL No.	021-36815739/13621604759

E-mail address	<a href="mailto:deze@coes.cn">deze@coes.cn</a>	
Satcom-C Tlx no.	441302763	
<b>舱容 TANK CAPACITY</b>		
Diesel Oil	MGO 1162.6 m3	
M/E Lube Oil	14.2M3	
A/E Lube Oil	6.9 m3	
Fresh Water	738.214 m3	
Ballast Water	549.7 m3	
Liquid Mud	722.88 m3	
<b>供油水 LIQUID TRANSFER RATES</b>		
Water	Capacity/Pressure: 150M3/h / 90M	
Oil	Capacity/Pressure: 150 M3/h / 90M	
<b>机械设备 MACHINERY</b>		
Main Engines	Type	Bergen B32:40L9P
	Maker	Rolls-Royce Marine AS Bergen Norway
	Rated output	4500KW750RPM X 2 SETS (Total: 12069 HP)
Aux. Engines	Type	CATERPILLAR 3412C
	maker	CATERPILLAR USA.
	Rated output	620 kw x 2 sets
Generators	Type: SR4B, 2 sets, Maker: CATERPILLAR USA. Rated capacity: 737KVA, Rated volt.& cur.: 440V, 967A Phases & Freq.: 3, 60 Hz	
Shaft Generators	Type: DSG 86 MI-4 ,2 sets, Maker: AVK Detschland GmbH & co.KG Rated capacity: 2163 KVA , Rated volt.& cur.: 440V, 2838A, Phase & Freq.: 3, 60Hz	
Emergency Generator	Type:M 44.2S7 C 6/4, Maker: LEROY SOMER Rated output power: 95 kw, Rated volt.& Freq.: 440V, 60Hz	
Emergency Fire	Maker & Type: DESMI (MODEL:S80-70-220N/A09-2) Capacity & Range: 45 m3 , 60 m	
Main Engine Air Compressor	Type: HL 2/77-90-105,2 sets, Maker: SPERRE Capacity: 28 m3 /hr, Delivery pressure: 3 Mpa	
Propellers	Description:KAMEWA ULSTEIN-CONTROLLABLE PITCH Propeller, 4blades, BOTH OF OUT-BOARD TURNING Propeller Dia.& rev.: 3900 mm, 156.3 rpm	
Rudders	2 x S-A type rudders type:S-A 2050/253 F.2,area:8.53m2 diameter;253mm ,forces and moments:M.C.R. speed ahead=660221kn,expected torque at 15kts- speed ahead =87974knm,max.rudder angle=2*45gead	
Steering gear	Hydraulic, 2 sets ,Maker & Type: wagner,LA2 11.8-45-CB2	
Bow thruster	1 set ,Maker & Type: Kamewa Ulstein, TT1650 DPN-CP, Propeller Dia. 1650 mm x 4 blades, Input Power & Thrust: 735kw, 10.8 tonnes	

Retractable Azimuth Thruster(engine driven)	maker(engine):cummins(model:KTA38-M1) 1 no.*1000bhp*1800rpm Brand(FPP):Ulstein aquamaster(model:UL911/4220)1600mm dia.4-bladed propeller.
Stern thruster	1 set ,Maker & Type: Kamewa Ulstein, TT1650 DPN-CP, Propeller Dia. 1650 mm x 4 blades, Input Power & Thrust: 735kw, 10.8 tonnes
<b>拖航设备 TOWING /ANCHOR HANDLING EQUIPMENTS</b>	
Towing/Anchor handling winch	Towing winch Type: SL350W/BSL350W, Rated load: 350/14 ton, Rated speed: 6.1/74 m/min, Drum: 2 pcs , Maker: ROLLS-ROYCE MARINE AS
Wildcat (cable lifter)	Fitted outside of the anchor handling drum, Starboard-side for 90mm chain, Port-side for 90mm chain
Tow wire	① Dia. 82.5 mm x 1520 metres, ② Dia. 82.5 mm x 810 metres Spare: 82.5 mm x 1526 metres ;82.5 mm x 860 metres
Shark Jaw	maker:karmoy winch(type:M330201B)*2sets SWL:650tons
Towing Pins	maker:karmoy winch(type:M330201B)*4sets SWL:300tons
Open stern roller	5.5M x Dia 2.7M, 525 T SWL
<b>甲板设备 DECK EQUIPMENTS</b>	
Anchor	manufacturer:jiangsu yangyuan marine equipment casting CO,LTD;type:HHP stockless anchor;1.92t
Anchor Chain	manufacturer:qingdao anchor chain factory;type:flash butt-welded 46
Windlass	manufacturer:rolls-royce marine-deck machinery;type:LBFMG63046;14T
Tugger winch	manufacturer:rolls-royce;type:LAKMX41017;15t
Capstan	manufacturer:rolls-royce;type:LCCM41010;10T
Deck Crane	manufacturer:TTS;type:ATB130/15E2
<b>通导设备 NAVIGATION/COMMUNICATION EQUIPMENTS</b>	
Gyro Compass	Type: STANDARD 22, Maker: Raytheon Anschutz GmbH
Auto Pilot	Type: 102-864NG003,Maker: Raytheon Marine GmbH
Echo Sounder	Type: FE-700, Maker: FURUNO ELECTRIC CO.LTD
Speed Log	Maker & Type: FURUNO ELECTRIC CO.LTD,DS-80
Weather Facsimile	Type: FAX-408, FURUNO ELECTRIC CO.LTD
NAVTEX receiver	Type: NX-700, FURUNO ELECTRIC CO.LTD
DGPS	Type: LD5/LID3, VERIPOS
ECDIS	NIL
AIS	Type: FA-150, FURUNO ELECTRIC CO.LTD
SSAS	Maker & Type: FURUNO ELECTRIC CO.LTD,IC-307
Radar	Type: FAR-2117,Maker: FURUNO ELECTRIC CO.LTD
	Type: FAR-2117,Maker: FURUNO ELECTRIC CO.LTD

S-VDR	NIL
Satcom-F	Maker & Type: THRANE&THRANE,3738A/3739A
Satcom-C	Maker & Type: FURUNO ELECTRIC CO.LTD,FELCOM-15
SART	Maker & Type: mcmurdo,S4
MF/HF Transceiver with	Maker & Type: FURUNO ELECTRIC CO.LTD,FS-2570C
VHF Radio	Maker & Type: FURUNO ELECTRIC CO.LTD,FM-8800S
406MHz S-EPIRB	Maker & Type: MCMURDO,E5
DP2	CONVERTEAM,UK
<b>救生、消防设备 LIFE-SAVING &amp; FIRE-FIGHTING EQUIPMENTS</b>	
Rescue boat	6 p x 1 sets
Life raft	25 p x 6 sets
Fire Pump	Type: C22BA-12-16-H, Capacity: 1650 m <sup>3</sup> /h, 2 sets,total head 147mlc for 2nos.*1200m <sup>3</sup> /hr water monitor &300m <sup>3</sup> /hr foam monitor c/w deck spray nozzle and 4-way deck delivery head &oil dispersant spray boom system
<b>甲板面积及载重 DECK CAPACITIES</b>	
Clear deck space: 510 m <sup>2</sup> , Clear Deck Dimension: 34.6 x 14.1 metres Deck Strength: 5.5 tons/m <sup>2</sup> , Crash Rail: 2.7 metres height Deck Cargo capacity: 500 M <sup>3</sup>	
<b>铺位 ACCOMMODATION</b>	
CABIN:2 SINGLE BED/CABIN+ 2 BEDS X 3CABIN + 4 BEDS X 10CABIN CERTIFIED LSA FOR: 48P	