

<b>Machinery &amp; Equipment List</b>			
<b>DESCRIPTION</b>	<b>SPECIFICATION</b>	<b>QTY</b>	<b>MAKER</b>
<b>A. MAIN MACHINERY:</b>			
MAIN ENGINES 主机	Caterpillar 3516B,2575 bhp / 1600 rpm heat exchanger cooled, 24V DC electric start, ABS Certificate	2	Caterpillar
GEAR BOXES 齿轮箱	Reintjes LAF 872 7.526:1	2	Reintjes/ Twin Disc
ENGINE CONTROLS 引擎控制	24V DC electric controls	2	Caterpillar
ENGINE TELEGRAPH 车钟	Light and sound type, 220VAC or 24VDC	1	China
TAIL SHAFTS 艉轴	Forged steel, ABS Certificate	2	ZF/RR
STERN TUBE BEARING 尾管轴承	White Metal Type	2	ZF/RR
SHAFT SEALS 轴封	Oil bath cool type seals	2	ZF/RR
Controllable PROPELLERS 螺旋桨	Nickel aluminium bronze Controllable pitch, ABS Certificate (c/w DP1 interface)	2	ZF/RR
MAIN GENERATING SETS 发电机组	Caterpillar C18 350KW 50Hz	3	Caterpillar
EMERGENCY GEN SET 应急发电机	Perkins 65 kw, radiator cooled, 12VDC start	1	Caterpillar
STEERING GEAR 舵机	Electro-hydraulic of about 2x3 t-m torque with two pumps	1	Kobelt
BOW THRUSTER 艏侧推	CPP, about 6t thruster driven by electric motor (c/w DP1 interface)	1	Kawasaki/RR
DP1 动力定分位系统	K-Pos DP-11		Kongsberg
EXTERNAL FIRE FIGHTING SYSTEM C/W WATER SPRAY 对外消防	Two (2) units fire pump driven by M/E PTO. Fire monitors 2 x1200m3/hr at 12 bar, manual and remote control.		FFS
<b>B.DECK AND OTHEREQUIPMENT:</b>			
ANCHORS & CHAIN 锚及锚链	2 x high holding power anchor 1305 kg + 440m x 36mm Grade 2 stud link chain, ABS Certificate	1	China Qingdao

ANCHOR WINDLASS 锚机	Electro-hydraulic, 2 wildcats plus 2 warping drums	1	Decklead/ MEP
STERN CAPSTANS 艮铰盘	Electro-hydraulic 5t @15 M/Min	2	Decklead/ MEP
TUGGER WINCH 、 拖拽绞车	Electro-hydraulic 10t @15 M/Min	2	Decklead/ MEP
RUBBER FENDER 橡胶护舷	'W' type at bow		China
MANHOLES & HATCHES 人孔/舱口盖	Yard Standard		China
INSULATION 绝缘材料	Rock wool and glass wool		China
PANELLING 隔栅板	Soft core, ABS or CCS approved type		China
WINDOWS & PORTLIGHTS 舷窗	Steel, ABS or CCS approved type		China
WATER TIGHT DOORS 水密门	Steel, ABS or CCS approved type		China
WEATHER TIGHT DOORS 风雨密门	Steel, ABS or CCS approved type		China
TOILET MODULES 卫生单元		18	China
DECK CRANE 甲板吊	3t x 9m	1	China
<b>C. NAVIGATION &amp; COMMUNICATION EQUIPMENT:</b>			
GMDSS AREA A1+A2+A3 中高频无线电装置	Furuno Rc-1500-T 400W SSB, FM-8500 VHF DSC-60 watch keeping receiver, DP-6 NBDP terminal		Furuno
NAVTEX RECEIVER 气象传真接收机	Furuno	1	Furuno
GMDSS PORTABLE VHF 甚高频无线电话	SRH-50	3	Furuno
INTERNAL COMMUNICATION 内通			Zhejiang KeXun /ZhongYan
SOUNDPOWER TELEPHONE 声力电话			Zhejiang KeXun/ZhongYan
PUBLIC ADDRESS SYSTEM 广播系统			Zhejiang KeXun/ZhongYan
ECHO SOUNDER 测深仪	Furuno	1	Furuno
GPS 全球定位仪	Furuno / JRC	1	Furuno

RADAR TRANSPONDER 雷达应答器	Jotron Tron-SART	2	Furuno
RADARS 雷达装置	Furuno / JRC 96nm S-band 20" + Furuno / JRC 64nm X-band 10"	1+1	Furuno
SPEED LOG 计程仪	Furuno DS-80	1	Furuno
INMARSAT-C 卫星通讯 C 站	Furuno Falcom-12	1	Furuno
MAGNETIC COMPASS 磁罗经	Saura or Lilley & Gillie, 150mm card	1	Furuno
GYRO COMPASS 电罗经	Anschuetz Standard 20 Compact or Robertson RGC 11	2	Furuno
EPIRV 应急示位标	MCM-406A	1	Furuno
AUTO PILOT 自动舵仪	Anschuetz Pilostar D or Roberston AP9-MK3	1	Anschuetz/ Furuno
FOG HORN 雾笛	Hand operated	1	China
SIGNAL LAMP 信号灯	Aldis type, 100mm	1	China
BELL 电铃	200mm	1	China
CLOCK & BAROMETER 钟和气压表	Local supply 1 China	1	China
CLEAR VIEW SCREEN 旋转视窗	300mm, 24VDC	1	China
WINDSCREEN WIPERS 雨括器	Pantograph type, 24VDC	3	China
BINOCULARS 望远镜	50 x 75	1	China
CLINOMETERS 倾斜仪	Suitable size, gravity type	2	China
<b>D. ANCILLARY EQUIPMENT</b>			
FO SERVICE PUMP 燃油输送泵	Itur / Desmi / Azcue	2	Azcue
BILGE & BALLAST PUMP	Itur / Desmi / Azcue	2	Azcue
G.S. / FIRE PUMP 消防泵	Itur / Desmi / Azcue	1	Azcue
DIRTY OIL TRANSFER PUMP 污油泵	Itur / Desmi / Azcue	1	Azcue

EMERGENCY FIRE PUMP 应急消防泵	Centrifugal self-priming, electric motor driven	1	Azcue
CARGO WATER TRANSFER PUMP 淡水物泵	Centrifugal self-priming, electric	1	Azcue
CARGO OIL TRANSFER PUMP 货油泵	Gear pump, electric	1	Azcue
DRILL WATER/BALLAST PUMP 钻井水压载泵		1	Azcue
LIQUID MUD PUMP 泥浆泵		2	Tianjing
CEMENT COMPRESSOR COOLING PUMP 水泥压缩机冷却泵		2	Tianjing
F.W & S.W PRESSURE SETS 海水/淡水压力水柜		2	China
REFRIGERATION COMPRESSOR 制冷压缩机	Suitable capacity		CARRIER
AIR CONDITIONING COMPRESSOR 空调装置	Suitable capacity		CARRIER
VENTILATION FANS 通风系统	Suitable capacity and units		China/Qingdao
SEWAGE TREATMENT PLANT 污水处理装置	For 50 persons	1	China Nanji
OILY WATER SEPARATOR 油水分离器	1.0 m3/hr	1	Ocean Clean
VALVES 阀件	Mostly to JIS standard		China
Quick Closing for FO Valve 燃油快关阀	Ecnosto / Viking		Netherland
FRESH WATER MAKER 制淡水机	5 tonnes/day	1	Luzhou / China
<b>E. ELECTRICAL FITTINGS</b>			
SEARCH LIGHTS 探照灯	2000W	3	China

FLOOD LIGHTS 泛光灯	500W halogen flood lights	5	China
NAVIGATION LIGHTS 航行信号灯	1 Shipset		China
SWITCHES + CONTROL CONSOLES 配电板、驾控台	Main switch board and distribution boards + control consoles		Schiliddle
SOCKETS 插座			China
GENERAL LIGHTING 照明灯具			China
<b>F. FIRE-FIGHTING &amp; LIFE SAVING</b>			
CO2 SYSTEMS CO2 灭火系统	Fixed bottles in CO2 room for E/RType & capacity approved by Class		China/Jiangxi
WATER FIRE FIGHTING 水雾灭火装置	Fire hydrants and hose per the specification		China
FIREMAN OUTFITS 消防员装备	SOLAS standard	4	China
PORTABLE FIRE EXTINGUISHERS 便捷式灭火装置	Suitable per specification		China
FIRE DETECTION / ALARM SYST 火灾报警系统	Suitable per specification, Class approved type		Tyco
INFLATABLE RAFTS 气胀式救生筏	SOLAS standard, 25-man	6	China
LIFE BUOYS 救生圈	SOLAS standard	8	China
LIFE JACKETS 救生衣	SOLAS standard	53	China
DISTRESS ROCKET 遇难信号装置	SOLAS standard, 12 Nos	1	China
PYROTECHNICS 烟火	As required yellow smoke	2	China
MEDICINE CHEST (FIRST AID) 药箱	As required, suitable per the authority	1	China
IMMERSION SUITS 浸水保温服	SOLAS standard	42	China
WORK / RESCUE BOAT & DAVIT 高速救助艇	SOLAS standard	1	China/Zhenjiang
<b>G. OTHERS</b>			
PAINTING 油漆			International
PURIFIER 分油机		1	Japan (MITSUBISHI)

F.O FLOWMETER 燃油流量计		1	China/Nitto
F.W FLOWMETER 淡水流量计		1	China
DRILL WATER FLOWMETER 钻井水流量计		1	China
RECHARGING COMPRESSOR 呼吸空压机	BA		China/import
DISPERSANT SYSTEM 油扩散装置		1	FFS
HEAVY DUTY WASHING MACHINE (6 KG) 洗衣机		2	China
HEAVY DUTY DRYER (6 KG) 烘干机		2	China
ELECTRIC CABLE 电缆			China
FURNITURE 家具			China
ELECTRIC COOKING RANGE 电炉具		1	GOLTEN /CHINA