

Technical Specification

SEA COUGAR

KMAR Multipurpose AHT Vessel



DEEP SEA SUPPLY

IMO no: 9190963
 DNV id no : 21402
 MMSI : 259570000
 Call Sign : LJQY



MAIN DESCRIPTION		MEASUREMENT	
Type :	KMAR 404	Lenght oa :	73.60 m
Classification :	DNV +1A1 Tug Supply Vessel SF,EO,HL (+) HL(2.8),DK(+),Oil rec,FiFi II, DYNPOS-AUTR	Lenght bpp :	66,60m
Yard :	Kvæerner Kleven as	Breath moulded :	16.40 m
Yard built no :	270	Depth moulded	8.00 m
Place built :	Ulsteinvik	Draught max :	6.90 m
Country built :	Norway	Gross tonnage GT :	2599
Delivered :	1999	Correspondign DWT :	2750 t
Flag :	NOR	Net tonnage NT :	810 t
Port of registry :	Arendal	Air draft at 6,50 mt EK:	28.5 mtrs
Owner :	Deep Sea Supply Shipowning As	Speed svc/max.	10/15,5 knots
		ISM-Responsible :	OSM

CARGO CAPACITY		DISCHARGE RATE	
Deck cargo:	1.000 tons	Loading/Discharge station :	2 each side, 6"-4" Weco/ red
Deck area:	550 m ³ (42x13,4m)	Fuel discharge rate :	250 m ³ /h - 8 bar
Deck strength:	5 t/m ² -10 t/m ² aft of frame 32	Mud discharge rate :	2 x 75 m ³ /h - 24 bar
Fuel (gasoil) :	824 m ³	Brine discharge rate :	2 x 75 m ³ /h - 24 bar
Liquid Mud :	615 m ³	Drillwater discharge rate :	250 m ³ /h - 9 bar
Brine :	685 m ³	Dry bulk discharge rate :	Abt.100 t/h
Drillwater/Ballast :	921 m ³	Base Oil discharge rate :	75m ³ /h - 9 bar
Dry Bulk :	4 tanks 240 m ³	Fresh Water discharge rate :	150 m ³ / h 9 bar
Fresh Water :	516 m ³	Couplings	4" WECO
Oil Recovery:	992 m ²		

MACHINERY / PROPULSION			
Main Engines :	2 x 7507 BHP Wartzila Diesel 5.530 kW 750 rpm	Auxiliary Engine set 1:	1125 Kw at 1800 rpm 1338 KVA, 3 x 450 V – 60 Hz
Propulsion Aft:	2 x 4 blades in nozzles dia 3,8 m	Auxiliary Engine set 2:	320 Kw at 1800 rpm 375 KVA, 3 x 450 V – 60 Hz
Rudders :	2 x flap , Ulstein Highlift	Emergency Generator :	1 x 116 Kw
Bow Thruster:	1 x 900 kw, tunnel 1224 BHP	Shore Connection:	450 V/60 Hz
Stern Thruster :	1 x 900 Kw, tunnel 1224 BHP	Total Kw :	11860 Kw
Azimuth Thruster Forward	1 x 800 Kw azimuth 1088 BHP	Total BHP :	15014 BHP
Shaft Generator 1:	1 x AVK DSG, 2400 KVA		
Shaft Generator 2:	1 x AVK DSG, 2400 KVA		

Deep Sea Supply Norway

All figures and data belived to be correct, but not guaranteed

PERFORMANCE / CONSUMPTION**ACCOMODATION**

Bollard Pull max :	196 MT	Cabins for crew:	12 x 1 for crew
Bollard Pull continuous :	187 MT	Cabins for passengers	2 X 2 / 1 x 4
Max Speed/Consumption :	17.0 knots at 43 m ³ /day	Mess/Dayroom :	45 m ²
Service Speed/Consumtion:	14.0 knots at 30 m ³ /day	Crew/Passengers :	20 Persons
Economical Speep/Consumtion :	12.0 knots at 22 m ³ /day	Mess/Dayroom :	45 m ²
Standby Mode :	Abt 4-5 m ³ /day	Cool store/Freezer :	12 m ²
Port Consumption :	Abt 1-2 m ³ /day	Dry Provision :	17 m ²
DP Operations by rig	Abt 12 m ³ /day		

DECK / AHL EQUIPMENT

Tugger Winch :	Brattvaag 2x 15 mt	Stern Roller :	1 x 3m x 6m, 500 t
Crane	5 mt / 14 m	Shark Jaws :	2 x 750 mt
Windlass:	1 x Brattvaag 16.4 mt	Towing Wire :	1400 a 76 mm
Capstans:	Brattvaag 2x 10 mt	Spare Tow Wire :	1200 a 76 mm
Anker Handling/Tow Winch :	Brattvaag SL 300t Pull / 400t Break	Work Wire A/H :	750 a 76mm
A/H-Tow drum capacity	2x2042m of 76 mm wire	CR-D Connectors	120t - (73-84)
A/H-Tow drum dimension	L:2500mm D:900/2600mm	Towing Eye	150t force
Rope reels:	Brattvaag 20 mt	Grapnels for Chain :	BLE 1090 - 100t
	2 x 2042 m of 76 m m	Forged J Chaser :	BLE 101-100t
Storage drum capacities	2 x 2000m a' 76mm	Spooling Device	Yes Installed on Towing and AH drums
Rig Chain Gipsies :	2 x 84mm, 2 x 76mm	Smith brackets:	200 t
Chain Lockers :	2 x 130 m ³		
Towing pins:	Karmøy KWT 350-800 / SWL 240 mt		

RESCUE EQUIPMENT

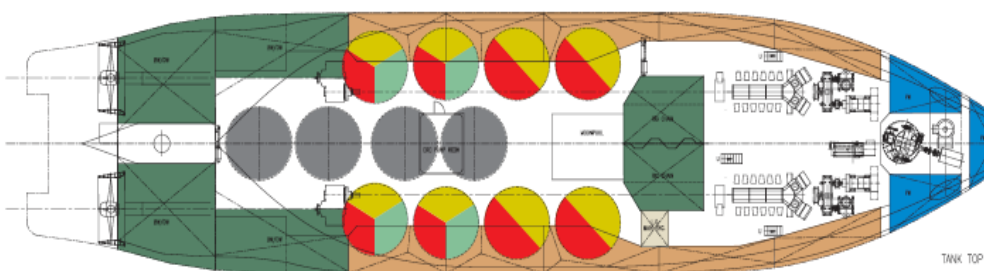
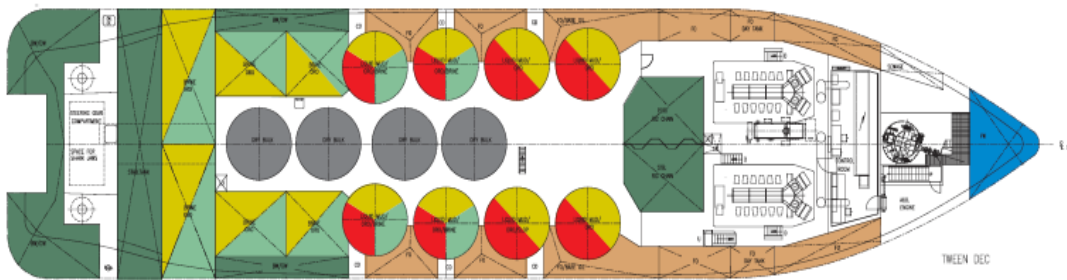
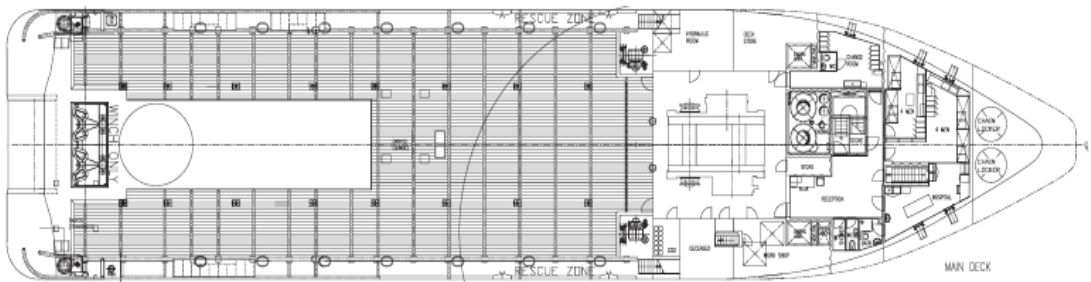
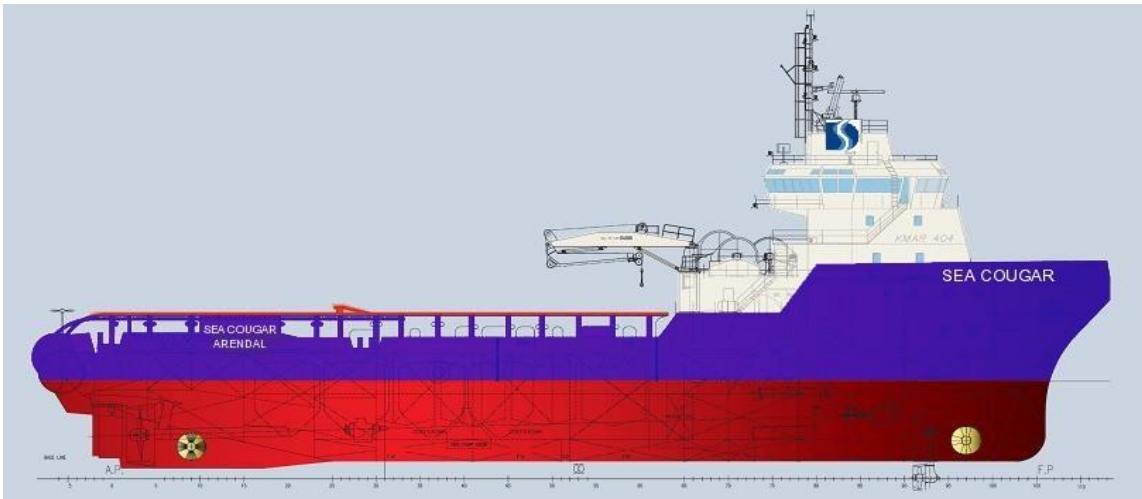
Rescue class :	Equipped for 250 pers. (Max 330 persons)	Reception	30 m ³
Hospital :	20 m ³	Rescue Regulation :	NMD
FI - FI Pumps/ Monitor :	FiFi II	Radar Transponder	2xJotron Torn SART
Monitor Capacity	2 x 3600m ³ /hr	Emergency Beacon:	Jotron Torn 40S
Pump Capacity	2 Kverner Eureka 4200m ³ /hr	GMDSS VHF` s:	3
MOB Boats:	Norsafe Magnum 750	Survival Suits :	29
Rescue basket	Bennex	Life jackets :	According to reg
Rescue nets	2 x rope nets	Life rafts:	4 x 25 persons

ND COMMUNICATION EQUIPMENT

DP System (DP 2)	Kongsberg Simrad SDP2 AUTR	GMDSS Sea Area:	A3
DP Refrance	Fanbeam,MDL	MF/HF Radio :	Sailor SSB T2130/RE2100
DP Refrance	DPS 700 (DPS 132 + DPS 200)	Radio Telex :	Sailor HF SSB TELEX/DSC
Radar 3 cm:	Furuno FR-2115	DSC Receiver :	Sailor RM2149/2150/2151
Radar 10 cm:	Furuno FAR-2835 (ARPA)	Helicopter comm :	ICOM IC-A3E VHF
Radar Slave :	19 " radar repeater	VHF 1 :	Sailor RT2047
Direction Finder :	TAIYO DT-L1550A	VHF 2:	Sailor RT2048
Gyro:	3 x Anschutz Digital 22	VHF 3 :	Skanti VHF 3000 Simplx
Autopilot:	Anschutz Pilotstar D	VHF	In ECR
Chart Plotter :	TELchart 2026ASI interface	UHF :	yes
Navtex :	JMC NT-900 reciver	Portabel UHF :	(8) 4 units w/helmet control
Joystick :	KAMEWa	Mobil Telephone :	Yes/ Voice / Email
AIS :	Furuno Universal FA-100	Iridium :	Motrola
Echo Sounder :	Furuno FE-680	Mini-M :	Sailor
Speed log :	Furuno Doppler DS-70	Sat C	2xSailor
Satellite Navigator (GPS)	Furuno GP-80 DGPS reciever	Fleet 77	Thrane&Thrane F77
Wind Sensors:	2 x Gill WindObserver II	Intercom System :	Vingtor Marine ALPHACOM
		Helibeacon:	1 x Scanti TU 8250B

Deep Sea Supply

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Tank capacities

			Cargo							
			Cement	Mud	Fuel Oil	Fresh water	Base Oil	Brine	Drill Water	Oil Rec.
Tank ID	Contents	Capacity (m³)	2,400	2,500	0,900	1,000	0,830	2,500	1,000	1,000
Forepeak	FW	144,6				144,6				
Wing TK 2 Port	FW	43,3				43,3				
Wing TK 2 Stbd	FW	43,3				43,3				
DB/Wing TK 3 Port	DW/WB	55,3							55,3	
DB/Wing TK 3 Stbd	DW/WB	55,3							55,3	
DB/Wing TK 4 Port	FO	53,9			48,5					
DB/Wing TK 4 Stbd	FO	43,2			38,8					
DB/Wing TK 5 Port	FO	85,6			77					
DB/Wing TK 5 Stbd	FO	85,6			77					
DB/Wing Tk 6 Port	FW	67,1				67,1				
DB/Wing Tk 6 Stbd	FW	67,1				67,1				
DB/Wing Tk 7 Port	FW	75,6				75,6				
DB/Wing Tk 7 Stbd	FW	75,6				75,6				
Tk 8 Port	DW/WB	131,5							131,5	
Tk 8 Stbd	DW/WB	131,5							131,5	
Wing Tk 9 Port	FO	55,5			49,9					
Wing Tk 9 Stbd	FO	55,5			49,9					
Wing Tk 10 Port	FO	29,1			26,1					
Wing Tk 10 Stbd	FO	54,5			49					
Wing Tk 11 Port	FO/BO	83,7			75,3		69,4			
Wing Tk 11 Stbd	FO/BO	83,7			75,3		69,4			
Wing Tk 12 Port	FO	34,3			30,8					
Wing Tk 12 Stbd	FO	34,3			30,8					
Wing Tk 13 Port	FO	36,4			32,7					
Wing Tk 13 Stbd	FO	36,4			32,7					
Wing Tk 14 Port	DW/WB	76,4							76,4	
Wing Tk 14 Stbd	DW/WB	76,4							76,4	
Tk 15 Port	MUD/ORO	76,8		192						76,8
Tk 15 Stbd	MUD/ORO	76,8		192						76,8
Tk 16 Port	MUD/ORO	76,8		192						76,8
Tk 16 Stbd	MUD/ORO	76,8		192						76,8
Tk 17 Port	MUD/BRI/ORO	76,8		192				192		76,8
Tk 17 Stbd	MUD/BRI/ORO	76,8		192				192		76,8
Tk 18 Port	MUD/BRI/ORO	77,3		193,2				193,2		77,3
Tk 18 Stbd	MUD/BRI/ORO	77,3		193,2				193,2		77,3
TK 19 Port	BRI/ORO	50,5						126,2		50,5
Tk 19 Stbd	BRI/ORO	52,8						132		52,8
Tk 20 Port	BRI/ORO	62,8						157		62,8
Tk 20 Stbd	BRI/ORO	60,5						151,2		60,5
Tk 21 Port	BRI/ORO	75						187,5		75
Tk 21 Stbd	BRI/ORO	75						187,5		75
Tk 22	DW/WB	129,4	129,4							129,4
Tk 23 Port	DW/WB	94,3							94,3	
Tk 23 Stbd	DW/WB	96,9							96,9	
Tk 24 Port	DW/WB	37,2							37,2	
Tk 24 Stbd	DW/WB	37,2							37,2	
Center	CEM	60	144							
Center	CEM	60	144							
Center	CEM	60	144							
Center	CEM	60	144							
TOTAL WEIGHTS			576	1538	694	517	139	1712	921	992
TOTAL CAPACITY (m³)			240	615	772	517	167	685	921	992
TOTAL CAPACITY (Cu.ft.)			8476	21733	27252	18244	5912	24183	32539	35032

Ship service tanks

Contents	Capacity (m³)
Bilgewater	5,2
Dirty oil	9,9
Fuel oil service tanks	78,0
Hot water	9,2
Luboil	30,0
Sewage	11,0
Sludge	9,7

All figures are based on a 100% tank volume

Densities are estimated values and actual cargo densities may alter the above carrying capacities