



**PSM**  
PVTRANS SHIPS MANAGEMENT

# HERCULES M SHIPS PARTICULARS

<b>SHIP'S NAME</b> :	HERCULES M	<b>TYPE</b>	: DOUBLE HULL
<b>PREVIOUS NAME:</b>	KAMARI		
<b>CALL SIGN</b> :	3WNR		
<b>FLAG</b> :	VIET NAM		
<b>REGISTRY</b> :	SAI GON		
<b>IMO NO.</b> :	9108697		
<b>OFFICIAL NO.</b> :			
<b>HULL NO.</b> :	1136		
<b>DEADWEIGHT</b> :	96,174 DWT		
<b>G.R.T/N.R.T</b> :	53829 / 27269		
<b>L.O.A</b> :	243.28 M		
<b>L.B.P</b> :	235.17 M		
		<b>PARALLEL BODY LENGTH</b>	
		<b>LIGHT SHIP CONDITION</b> :	82.80 M
		<b>BALLAST CONDITION</b> :	114.80 M
		<b>FULL LOAD CONDITION</b> :	129.80 M
		<b>DESIGN DRAUGHT</b> :	12.20 M
		<b>DESIGN DEADWEIGHT</b> :	82,535 MT
<b>MOULDED DEPTH</b> :	20.00 M	<b>COMMUNICATION</b>	
<b>MOULDED BREADTH:</b>	41.80 M		
<b>BOCK COEFICIENT:</b>	0.8129		
<b>LIGHT WEIGHT</b> :	14,708.9 MT	<b>INMARSAT-C-TLF</b> :	357435210
<b>CONSTANTS</b> :	170 MT	<b>INMARSAT C FAX</b> :	357435212
<b>T.P.C AT SD</b> :	89.8 MT	<b>INMRSAT C TELEX</b> :	457435210
<b>F.W.A AT SD</b> :	0.309	<b>MINI M TELEPHONE</b> :	764057328
		<b>MINI M FAX</b> :	764057329
		<b>MMSI</b> :	574352000
		<b>Tel:</b>	+357435210(Sat-B)
		<b>Tel:</b>	+764057328(Mini-M)

**OWNERS** : PETROVIETNAM TRANSPORTATION CORP.  
**ADD** : 56 NGUYEN DINH CHIEU STR., DST 1., HO CHI MINH CITY, VIET NAM.  
**TEL** : 84-8-9111301 - FAX : 84-8-9111300

**MANAGERS** : PVTRANS SHIPS MANAGERMENT  
**ADD** : M Floor – PVFCCo Tower, 43 MAC DINH CHI, DAKAO WARD, HO CHI MINH CITY, VIETNAM  
**TEL** : 84-8- 3822 8339 - FAX: 84-8- 3822 8566

**CLASSIFICATION D.N.V** : No. 18423, + 1A1 TANKER FOR OIL ESP E0 VCS-  
 2 TMON + COW, INERT  
**BUILDER** : SAMSUNG HEAVY INDUSTRIES S.A  
**DATE KEEL LAID** : 15/07/1995 **DATE LAUNCHED** : 23/12/1995 **DATE DELIVERED** : 15/02/1996  
**PROPELLER** : 4 BLADES, STD PITCH RIGHT TURN SCREW ( HHI-EMD ) D-7850 MM, ( NI-AL-BRONZE )

RUDDER MAX ANGLE : 35°  
 ANCHORS : 87 MM DIA, SHACKLES STOCKLESS TYPE, 2X 12 LENGTHS EACH SIDE  
 MOORING : 38MM WIRE ROPE WITH ROPE TAILS, 200M ON REELS, 8 BOW - 8 STERN  
 HOSE LIFTING EQUIPMENT ( BLM ) : 2 X 15 TONS HYDRAULIC CRANES.

#### LOADLINE DATA

	FREEBOARD	DRAUGHT	DWT	DISP.
SUMMER	: 6.417	13.617	96174	110883
WINTER	: 6.700	13.334	93639	108348
TROPICAL	: 6.134	13.900	98722	113431
BALLAST DRAUGHT ( 10% STORE )		: FWD / 6.70 M	AFT / 6.73 M	
BALLAST DRAUGHT ( FULL SUPPLIES )		: FWD / 5.98 M	AFT / 8.26 M	
BALLAST WATER CAPACITY ( 42.75 % )		: 41,107 MT		
TOP OF MAST TO KEEL			: 46.6 M	
BRIDGE TO MANIFOLDS			: 81.50 M	
BRIDGE TO BOW			: 204.50 M	
BRIDGE TO STERN			: 38.80 M	
STERN TO MANIFOLDS			: 120.30 M	
BOW TO MANIFOLDS			: 123.00 M	
HEIGHT OF MAIN DECK TO TOP OF RAIL			: 1.40 M	
CENTRE OF MANIFOLD FROM MID LENGTH			: 0.65 M	
KEEL TO CENTRE OF MANIFOLDS			: 22.13 M	
DISTANCE OF FLANGES FROM SHIP'S SIDE			: 4.60 M	
DISTANCE BETWEEN CENTRE OF FLANGES			: 2.50 M	
HEIGHT FROM MAIN DECK TO CENTRE OF MANIFOLDS			: 2.10 M	
HEIGHT OF FLANGES ABOVE DECK			: 2.10 M	
HEIGHT OF FLANGES ABOVE WORKING PART			: 0.90 M	
HEIGHT TOP OF RAIL TO ENTER OF MANIFOLDS			: 0.70 M	

#### CAGO LOADING PERFORMANCE

MAX LOAD RATE HOMOGENEOUS CARGO	: 7500 CM/HR
MAX LOAD RATE TWO GRADE SIMILAR	: 5000 CM/HR
DESIGNED MAX LOADING RATE 2500 CM/LINE/TANK 1250 CM/SLOPS	: 833 CM/HR

#### CAGO SEGREGATION THREE 100 %

GROUP 1	: C.O.T 1-4-7	= 42,349.14 CM = 38.5 %
GROUP 2	: C.O.T 2-5-SLOPS	= 35,109.24 CM = 32.0 %
GROUP 3	: C.O.T 3-6	= 32,412.80 CM = 29.5 %

#### CARGO CAPACITY CM

		<u>100%</u>	<u>98%</u>
7 C.O.T	:	106,547.50	10,4416.55
2 SLOPS	:	3,323.60	3,257.13
TOTAL CM	:	109,871.10	107,673.68

TOTAL BBLs	:	69,1067.24	677,254.90
SLACK C.O.T	:	ONLY 1 – 5 – 6	
F.O CAPACITY	:	2585.9 MT ( 98 % )	S.G. : 0.98
D.O CAPACITY	:	104.9 MT ( 98 % )	S.G. : 0.98
F.W. CAPACITY	:	254 MT	
BUNKER CONNECTIONS	:	2 PER SIDE WITH 8" DIAMETER	

**CARGO PUMPS ( NANIWA EUREKA – BASIS 1.025 S.G. )**

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3 X 2500 CM/HR X 140 M HEAD –STEAM TURBINE , DRIVE HORIZONTAL SINGLE STAGE CENTRIFUGAL  
 1 X 300 CM/HR X 140 M HEAD –STEAM STRIPPING PUMP  
 1 X 300 CM/HR STRIPPING EDUCTOR

**BALLAST PUMP ( NANIWA EUREKA )**

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1 X 3000 CM/HR X 30 M HEAD –STEAM TURBINE DRIVEN  
 1 X 500 CM / HR + 1 X 1200 CM/HR STRIPPING EDUCTOR  
 TANK CLEAN 1 X 240 CM/HR

**INERT GAS SYSTEM ( KVAENER MOSS )** : FLUE GAS 9.375 CM/HR. 1 INERT GAS USING BOILER

**BOW CHAIN STOPPER ( TONGUE TYPE )- OCIMF**

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MAKER : SAM SUNG SHIPYARD, NO. 432-021  
 SAFETY WORKING LOAD : 200 TONS  
 SIZE OF CHAIN : ø 76 MM

NOTE: This Equipment is adequate for Single Point Mooring According To the O.C.I.M.F Recommendation.

**MAIN ENGINE ( HHI-EMD )** : MAN B&W 6L60MC – MCR 14,160BHP AT 117 RPM  
 - NCR 12750 BHP AT 113 RPM  
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**F.O ACTUAL CONSUMPTION M/E AT 14 KNOT SPEED:** BALLAST LADEN  
 38 – 39 Tons/Day 39 – 41 Tons/Day

**F.O ACTUAL CONSUMPTION A/E:** 2.80 – 3.50 Tons/ day

**OTHER CONSUMPTIONS**

INERT TANK PRIOR LOADING	:	18 TONS
LOADING	:	10 TONS
TO RISE CARGO TEMPS BY 1 <sup>o</sup> C	:	7 TONS
TO MAINTAIN LOAD TEMPS 52 <sup>o</sup> C	:	15 TONS
TO MAINTAIN LOAD TEMPS OF 57 <sup>o</sup> C	:	16 TONS
IDDLE IN PORT	:	6 TONS
DISCHARGING WITH COW	:	40 TONS

**CARGO HEATING ( AL. BRASS HEATING COILS)** : BY STEAM HEATING FROM 44<sup>0</sup>C TO 66<sup>0</sup>C WITHIN 96  
HRS

MAINTAIN CARGO HEAT 57<sup>0</sup>C / 137<sup>0</sup>F

**MAX LOADED TEMPS**

: 73.9<sup>0</sup>C NEVER EXCEED 76.7 <sup>0</sup>C

**F.W.GENERATOR ( SAKURA SPN )**

: 1 X 25 TONS /DAY

**BOILERS ( AALBORG )**

: 2 AUXILIARY BOILERS – 25 TONS/DAY

HFO CONS: 2050 KG/HR/EACH

1 EXH. GAS ECONOMIZER – 1.2 TONS /HR