

Date of writing report...18th April, 1960 Received London..... Port..... KOBE No..... EE-7738

Survey held at..... Amagasaki No. of visits..... 3 First date..... 20th April, 1959 Last date..... 9th October, 1959

Name of Ship	"ORIENTAL GIANT"		Owners	Aqaira Tankers S.A.	
(Or Contract No. if name unknown).			(Or Consignees)		
Ship Built at	Sasebo	by	Sasebo Ship Industry Co., Ltd.	when	Yard No. 200
Auxiliary Engines	<del>two Gas Turbines</del>	made at	Amagasaki	by	Yanmar Diesel Engine Co., Ltd.
				when	10-1959
Total No. of sets and description (including type name).	One (1) set Yanmar 12ML type diesel engine				
				Eng. Nos.	8000ZEM

**SHAFTING.** Is a damper or detuner fitted? No No. of main bearings 7 Are bearings of ball or roller type? No Distance between inner edges of bearings in way of cranks 303 mm Crankshaft: ~~Budooorish~~ solid Material of crankshaft Carbon steel Approved minimum tensile strength 55 kg/mm<sup>2</sup> Dia. of pins 138 mm Journals 160 mm Breadth of webs at mid throw 260 mm Axial thickness 61.5 mm If shrunk, radial thickness around eyeholes - Dia. of flywheel 820 mm Weight 425 kg Are balance weights fitted? No Total weight - Rad. of gyration  $0.02 = 185 \text{ kg-M}^2$  Dia. of flywheel shaft -

Has each engine been tested in shop? Yes How long at full power? 4 hrs Was it tested with driven machinery attached? Yes Was the governing tested and found satisfactory? Yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) 21/8/59

Date of approval of shafting - Identification marks on shafting No. MB-CK517 MH 9-10-59 LR

Particulars of driven machinery Fuji Denki (Made) 310 KVA A.C. Generator

**AUXILIARY GAS TURBINES.**

BHP per set	At	RPM of output shaft.	Open or closed cycle?
Arrangement of turbines.	HP drives at RPM	HP gas inlet temp.	pressure
(A small diagram should be attached showing gas cycle)	IP " at "	IP " " " "	"
	LP " at "	LP " " " "	"
No. of air compressors per set	Centrifugal or axial flow type?	Material of turbine blades	
Material of compressor blades	No. of air coolers per set	No. of heat exchangers per set	How are turbines started?
Are the turbines operated in conjunction with free piston gas generators?			
Total No. of free piston gas generators	Dia. of working pistons	Dia. of compressor pistons	No. of double strokes per minute at full power
Gas delivery pressure	Gas delivery temperature		
Have the turbines and attached equipment been tested in shop?	How long at full power?	Were they tested with driven machinery attached?	
Particulars of gearing			
Date of approval of plans	Identification marks	Particulars of driven machinery	

S. Nakai  
Manager of Kanzaki Works. *Manufacturer*  
Yanmar Diesel Engine CO., Ltd.

This diesel engine was not completely manufactured under survey but was tested in the presence of the undersigned at the plant of Kanzaki Works, Yanmar Diesel Engine Co., Ltd., Amagasaki, Japan, then opened for examination when the details of the crankshaft and the main parts were verified with the approved drawing and found good.

Engineer Surveyor to Lloyd's Register  
M. Hayashibara  
U.S. "ORIENTAL GIANT"

*A. Mai Jones*  
Engineer Surveyor to Lloyd's Register