

REPORT ON OIL ENGINE MACHINERY.

No. 4225

13 NOV 1928

of writing Report 15th October 1928

When handed in at Local Office

in Survey held at Kamata

Book.

Single
on the Twin
Triple

Screw vessels

Built at

Kamata

Motors made at

Boilers made at

Horse Power

150

Horse Power as per Rule

✓

Yard No. ✓

When built ✓

Engine No. 1496 When made 1928

Boiler No. When made

Port belonging to

Yard No. 450 (building to class)

Is Electric Light fitted

✓

By whom built

Yard No. ✓

When built ✓

By whom made

Yard No. ✓

When built ✓

Owners Mr. Mitsubishi Losen Kaisha Nagasaki

Yard No. ✓

When built ✓

Is Refrigerating Machinery fitted for cargo purposes

Yard No. ✓

When built ✓

Is Electric Light fitted

✓

2 or 4 stroke cycle

Single or double acting

Single

No. of cylinders

6 ✓

No. of cranks

6 ✓

Diameter of cylinders

9 ✓

Revolutions per minute

350 ✓

Means of ignition

Compression ✓

Kind of fuel used

Heavy oil ✓

There is a bearing between each crank

Yes ✓

Span of bearings (Page 92, Section 2, par. 7 of Rules)

16 3/4 ✓

Is a flywheel fitted

Yes ✓

Diameter of crank shaft journals

as per Rule ✓

as fitted ✓

Breadth of crank webs

as per Rule ✓

as fitted ✓

Thickness of ditto

as per Rule ✓

as fitted ✓

Length of stern bush

✓

Diameter of propeller

✓

No. of blades

✓

state whether moveable

✓

Total surface

✓

square feet

Method of reversing

✓

Is a governor or other arrangement fitted to prevent racing of the engine when declutched

✓

Thickness of cylinder liners

✓

The cylinders fitted with safety valves

Silencer walls cooled

✓

Mean of lubrication

Forced ✓

Are the exhaust pipes and silencers water cooled or lagged with

conducting material

If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being siphoned back to the engine

✓

No. of cooling water pumps

One ✓

Is the sea suction provided with an efficient strainer which can be cleared

thin the vessel

✓

No. of bilge pumps fitted to the main engines

✓

Diameter of ditto

✓

Stroke

✓

Thickness of cylinder liners

✓

Is one be overhauled while the other is at work

✓

No. of auxiliary pumps connected to the main bilge lines

✓

How driven

✓

Thickness of cylinder liners

✓

Is one be overhauled while the other is at work

✓

No. and sizes of suction connected to both main bilge pumps and auxiliary bilge pumps

- In engine room ✓

Thickness of cylinder liners

✓

Is one be overhauled while the other is at work

✓

No. of ballast pumps

✓

How driven

✓

Sizes of pumps

✓

Are all the bilge suction pipes fitted with roses

✓

Are the roses in Engine Room always accessible

✓

Are all the bilge suction pipes fitted with roses

✓

Are all connections with the sea direct on the skin of the ship

✓

Are they valves or cocks

✓

Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates

✓

Are the discharge pipes above or below the deep water line

✓

Are they each fitted with a discharge valve always accessible on the plating of the vessel

✓

Are all pipes, cocks, valves and pumps in connection with the machinery accessible at all times

✓

Are the bilge suction pipes, cocks and valves arranged so as to prevent any

communication between the sea and the bilges

✓

Is the screw shaft tunnel watertight

✓

Is it fitted with a watertight door

✓

Are all the bilge suction pipes fitted with roses

✓

Are the roses in Engine Room always accessible

✓

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IS A DONKEY BOILER FITTED? ✓

If so, is a report now forwarded? ✓

HYDRAULIC TESTS:-

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS	6 th August	550lb	1100lb	R S	
COVERS	6 th August	550lb	1100lb	R S	
JACKETS.....	22 nd August	7lb	30lb.		
PISTON WATER PASSAGES.....					
MAIN COMPRESSORS—1st STAGE.....	6 th August	120lb.	400lb.	R S	
2nd	6 th August	1000lb.	2000lb.	R S	
3rd					
AIR RECEIVERS-STARTING					Air bottles stamped .
INJECTION					No 1 10130-11
AIR PIPES	7 th Sept.	1000lb.	2000lb.	R S	Lloyd's test 29965 Lloyd's test 296
FUEL PIPES	7 th Sept.	1000lb.	2000lb.	R S	W.P. 1207lb. W.P. 1207lb.
FUEL PUMPS					PK 29 Y 27 PK 29 q-2
SILENCER					
WATER JACKET					
SEPARATE FUEL TANKS					

PLANS. Are approved plans forwarded herewith for shafting No. Approved No. 8-6-28 Receivers

Separate Tanks

SPARE GEAR 1 set of studs & nuts for cylinders. 1 piston, packing rings & piston pin. 3 sets packing rings. 1 set of crank shaft coupling bolts. 1 set bearings for top & bottom ends, 1 set of main bearing bolts. 6 air exhaust valves, 2 exhaust valve seats. 6 exhaust valve springs. 1 starting air valve, 1 fuel valve. 3 fuel valve needles. 1 flange plate. 1 cylinder safety valve. 1 set of fuel pump valves. 1 fuel pump complete. 1 lubricating oil valve. 1 set of piston rings for air compressor. 1 set of air valves for compressor also seats. 1 set of valves for cooling water pump. 1 set of bearing bases for piston pin for air compressor also for crank pin. 2 air bottle valves. Various lengths of pipes for fuel, air injection & delivery also a set of pumps.

The foregoing is a correct description.

Niigata Tekkosho, Manufacturer. Shop Superintendent, Shigeo Kato

Dates of Survey while building	During progress of work in shop - { 19-6-28, 16-7-28, 6-8-28, 22-8-28, 7-9-28, 24-9-28, 3-10-28, 8-10-28.
	18-4-28
	During erection on board vessel - { ✓
Total No. of visits	8

Dates of Examination of principal parts—Cylinders	6-8-28	Covers	6-8-28	Pistons	22-8-28	Rods	Connecting rods	6-8-28					
Crank shaft	18-4-28	Thrust shaft	✓	Tunnel shafts	✓	Screw shaft	✓	Propeller	✓	Stern tube	✓	Engine settings	✓
Engines holding down bolts	✓	Completion of pumping arrangements	✓									Engines tried under working conditions	24-9-28
Completion of fitting sea connections	✓			Stern tube	✓	No. 30528 1/2						Screw shaft and propeller	✓
Material of crank shaft	Mild Steel	Identification Mark on Do.	FBS 188 79	Material of thrust shaft	✓							Identification Mark on Do.	✓
Material of tunnel shafts	✓	Identification Marks on Do.	✓	Material of screw shafts	✓							Identification Marks on Do.	✓
Is the flash point of the oil to be used over 150° F.	Yes.												

Is this machinery duplicate of a previous case No. If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, etc.) These engines have been built under special Survey in accordance with the requirements of the Rules. The materials and workmanship have been found good. The engines examined under working conditions and found satisfactory.

Certificate (if required) to be sent to
the Surveyor or registered and to provide on or before the 1st day for Committee's Minutes.

The amount of Entry Fee ... £ : When applied for.
 Special ... Yen 240⁰⁰ : 15-10-1928
 Donkey Boiler Fee ... £ : When received.
 Travelling Expenses (if any) Yen 40⁰⁰ : 20-10-1928

J. Brooke Smith

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 29 NOV 1929

TUE. 24 MAR 1929

Assigned See Log. Vol. II. No. 1691

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