

REPORT ON STEAM, TURBINE MACHINERY.

No. 9141 21 AUG 1950

Received at London Office

pt. 4a.

19th June 1950 When handed in at Local Office 19th June 1950 Port of Baltimore, Maryland
Date, First Survey 24th April Last Survey 5th May 1950
S.S. "IMPERIAL ALBERTA"
Chester, Pa. Sun S.B. & Drydock Co.
Lynn, Mass. General Electric
Barberton, Ohio Barberton & Wilcox
Imperial Oil Co.
Is Refrigerating Machinery fitted for cargo purposes No
Is Electric Light fitted Yes

STEAM TURBINE ENGINES, &c. — Description of Engines. Geared Turbine Generator Set.

Direct coupled, single reduction geared } to propelling shafts. No. of primary pinions to each set of reduction gearing
Astern double reduction geared }
Alternating Current Generator 3 phase 60 periods per second rated 400 Kilowatts 440 Volts at 1200 revolutions per minute;
Propelling Motors, Type

TURBINE LADING.

Table with columns: H.P., HEIGHT OF BLADES AT TIP, DIAMETER AT TIP, NO. OF ROWS, HEIGHT OF BLADES, DIAMETER AT TIP, NO. OF ROWS, HEIGHT OF BLADES, DIAMETER AT TIP, NO. OF ROWS, HEIGHT OF BLADES, DIAMETER AT TIP, NO. OF ROWS.

Shaft Horse Power at each turbine
Revolutions per minute, at full power, of each Turbine Shaft
1st reduction wheel
main shaft 1200

Generator Shaft diameter at journals
Pitch Circle Diameter
1st pinion 3.4 1st reduction wheel
main wheel 28.5
Width of Face
1st reduction wheel 8 1/2"
main wheel 8 1/2"

Distance between centres of pinion and wheel faces and the centre of the adjacent bearings
1st pinion 6" 1st reduction wheel
main wheel

Pinion Shafts, diameter at bearings
External 1st 3" 2nd
Internal
diameter at bottom of pinion teeth
1st 3.1696"
2nd

Generator Shaft, diameter at bearings 3"
Propelling Motor Shaft, diameter at bearings
Thrust Shaft, diameter at collars
Tube Shaft, diameter

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**BOILERS, &c.**— (Letter for record.....) Total Heating Surface of Boilers.....

Is Forced Draft fitted..... No. and Description of Boilers..... Working Pressure.....

Is a Report on Main Boilers now forwarded?.....

Is { a Donkey } Boiler fitted?..... If so, is a report now forwarded?.....  
 { an Auxiliary }

Plans. Are approved plans forwarded herewith for Shafting..... Main Boilers..... Auxiliary Boilers..... Donkey Boilers.....  
 (If not state date of approval)

Superheaters..... General Pumping Arrangements..... Oil Fuel Burning Arrangements.....

Spare Gear. State the articles supplied:..... One set of bearings for all bearings, one set of bearing bolts and casing bolts.

The foregoing is a correct description,

Dates of Survey while building { During progress of work in shops - - }  
 { During erection on board vessel - - - }  
 Total No. of visits.....

Dates of Examination of principal parts—Casings..... Rotors..... Blading..... Gearing.....

Wheel shaft..... Thrust shaft..... Intermediate shafts..... Tube shaft..... Screw shaft.....

Propeller..... Stern tube..... Engine and boiler seatings..... Engine holding down bolts.....

Completion of pumping arrangements..... Boilers fixed..... Engines tried under steam.....

Main boiler safety valves adjusted..... Thickness of adjusting washers.....

Rotor shaft, Material and tensile strength..... Identification Mark.....

Flexible Pinion Shaft, Material and tensile strength..... Identification Mark.....

Pinion shaft, Material and tensile strength..... Identification Mark.....

1st Reduction Wheel Shaft, Material and tensile strength..... Identification Mark.....

Wheel shaft, Material..... Identification Mark..... Thrust shaft, Material..... Identification Mark.....

Intermediate shafts, Material..... Identification Marks..... Tube shaft, Material..... Identification Marks.....

Screw shaft, Material..... Identification Marks..... Steam Pipes, Material..... Test pressure.....

Date of test..... Is an installation fitted for burning oil fuel.....

Is the flash point of the oil to be used over 150°F..... Have the requirements of the Rules for the use of oil as fuel been complied with.....

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo..... If so, have the requirements of the Rules been complied with.....

Is this machinery a duplicate of a previous case..... Yes..... If so, state name of vessel..... S.S. "KUWAIT"

General Remarks (State quality of workmanship, opinions as to class, &c.)..... The above turbo electric generator sets have been satisfactorily installed on board the vessel under special survey of the American Bureau of Shipping and the U.S.C.G. The turbo generator sets have been examined under working conditions and found in good order.

Certificate (if required) to be sent to.....  
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee	.... £	See :	When applied for,
Special	.... £	Rept. 9.	— 19
Donkey Boiler Fee	.... £	:	When received,
Travelling Expenses (if any)	£	:	19

*J. W. Mac R. Lee*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK AUG 2 - 1950

Assigned

*See Rept. 9 attached*



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