

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15040

Received at London Office JUN 7 1937

Date of writing Report 10th Nov. 1937 When handed in at Local Office 19 Port of Amsterdam.
No. in Survey held at Reg. Book. Amsterdam. Date, First Survey 7th June Last Survey 27th Oct 1937
Number of Visits 12.

Single on the Twin Triple Quadruple Screw vessel Tanker for the Anglo Saxon Petroleum Co Ltd. Tons { Gross Net

Built at Amsterdam By whom built Messrs Ned. Sch. Ing. Yard No. 67 When built
Owners Anglo Saxon Petroleum Co Ltd. Port belonging to

Oil Engines made at Amsterdam By whom made N. H. Kromhout Mot. Fabr. Contract No. 0143 When made 1937
Generators made at Sluikerveen By whom made Messrs Smit Contract No. When made 1937

No. of Sets 1 Engine Brake Horse Power 30 Nom. Horse Power as per Rule 13 Total Capacity of Generators 16. Kilowatts.

OIL ENGINES, &c.—Type of Engines Kromhout Diesel Engine H.S. 2 2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 40 h.g. Diameter of cylinders 210 mm Length of stroke 275 mm. No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 320 mm. Is there a bearing between each crank

Revolutions per minute 390 Flywheel dia. 1100 mm. Weight 1100 h.g. Means of ignition Compression Kind of fuel used Diesel Oil.

Crank Shaft, dia. of journals as per Rule 110 mm. Crank pin dia. 110 mm. Crank Webs Mid. length breadth 150 mm. Thickness parallel to axis shrunk
as fitted 110 mm. Mid. length thickness 70 mm. Thickness around eyehole

Coupling Flywheel Shaft, diameter as per Rule 110 mm. Intermediate Shafts, diameter as per Rule Thickness of cylinder liners No liners fitted.

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced.

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Water cooled.

Cooling Water Pumps, No. 1 & 14 40 liters p. hour. Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 & 850 liters p. hour.

Air Compressors, No. No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule

Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver

High Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Starting Air Receivers, No. 1 Total cubic capacity 45 liters Internal diameter 150 mm. thickness 7 mm.

Seamless, lap welded or riveted longitudinal joint Chamfer Material S. S. Steel Range of tensile strength 44/50 h.g. Working pressure by Rules 15 h.g.

ELECTRIC GENERATORS:—Type G 340 Pressure of supply 110 volts. Full Load Current 145 Amperes. Direct or Alternating Current Direct current.

If alternating current system, state the periodicity Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off Yes

Generators, are they compounded as per rule Yes is an adjustable regulating resistance fitted in series with each shunt field Yes

Are all terminals accessible, clearly marked, and furnished with sockets Yes

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes

If the generators are under 100 kw. full load rating, have the makers supplied certificates of test Yes and do the results comply with the requirements Yes

If the generators are 100 kw. or over have they been built and tested under survey

PLANS. Are approved plans forwarded herewith for Shafting 20/1/37 Receivers 10/1/37 Separate Tanks

SPARE GEAR c/s per rule.

The foregoing is a correct description.

N.V. KROMHOUT MOTOREN FABRIEK

D. GOEDKOOP JR.

[Signature]

Manufacturer.



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011330-011340-0229

Dates of Survey while building: June 7; July 13-20-28; Aug 2-13-13; Sept. 15-27; October 6-21-27; Total No. of visits 13.

Dates of Examination of principal parts—Cylinders 13/7/37 Covers 13/8/37 Pistons 13/8/37 Piston rods ✓
 Connecting rods 7/6/37 - 13/7/37 Crank and Flywheel shaft 7/6/37 - 13/7/37 Intermediate shaft ✓
 Crank and Flywheel shafts, Material S.M. Steel Identification Mark LLOYDS No. 2400 H.B. K.S. 15-7-37.
 Coupling Identification Marks LLOYDS No. 743 H.B. K.S. 27-10-37.
 Intermediate shafts, Material S.M. Steel

Is this machinery duplicate of a previous case Yes If so, state name of vessel tankus for Anglo Saxon Petrol. Co.

General Remarks (State quality of workmanship, opinions as to class, &c.) This engine has been constructed under Special Survey in accordance with the Society's Rules, approved plan and Secretary's letters.

The material used in the construction was found in order and workmanship satisfactory.

Engine tested on makers testbed and found in a good working condition and is in my opinion suitable to be placed on board the tank vessel for the Anglo Saxon Petroleum Co Ltd. Built by Messrs N.V. Nederlandsche Dok Maatschappij Yard No 67 for the purpose intended.

Engine fitted satisfactorily on board the M. 7. "Opalia"

Mr. Newby

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1m. 2.88.—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 700.00 : When applied for, 10.16.19.37
 Travelling Expenses (if any) £ 2.00 : When received, 11.12.19.37

Mr. Newby
 Surveyor to Lloyd's Register of Shipping.

FRI. 24 JUN 1938

Committee's Minute
 Assigned

See Ans. J.E. 15288



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 pt. 10.) 10m. 7.37.