

3/4"  
mi.  
mm

# Report on Oil Engine Electric Generator Sets.

No. 2217.

15 MAY 1944

Date of survey Report 25<sup>th</sup> April 44. When handed in 27<sup>th</sup> April, 1944. Port of Mahro.  
No. in Survey held at Mahro. Date, First Survey 14<sup>th</sup> July, 1943. Last Survey 7<sup>th</sup> March 44.  
By Book Number of Visits 11.

Single  
Screw vessel "SVEABORG"

Tons {Gross 8597  
Net 5144

Built at Mahro. By whom built Hockmms Mek. V.A.B. Yard No. 263 When built 1944  
Hockmms Raden A.B. Svea Port belonging to Hockmms.  
Oil Engines made at Mahro By whom made Hockmms Mek. V.A.B. Contract No. ✓ When made 1944  
Generators made at Västervik By whom made Asma Contract No. ✓ When made 1944  
No. of Sets 2. Engine Brake Horse Power 150 Nom. Horse Power as per Rule 34 Total Capacity of Generators 200 Kilowatt

Oil ENGINE Type of Engines Heavy oil 2 or 4 stroke cycle 4 Single or double acting Single.  
Maximum pressure 50 kg./cm<sup>2</sup> Diameter of cylinders 275 mm. Length of stroke 420 mm No. of cylinders 3 No. of cranks 3  
Span of bearings, adjacent to the Crank measured from inner edge to inner edge 325 mm. Is there a bearing between each crank Yes.  
Revolutions per minute 350 ✓ Flywheel dia 1650 mm Weight 2360 kgs. Means of ignition Diesel. Kind of fuel used Heavy oil.  
Crank Shaft, dia. of journals 152 mm. Crank pin dia 170 mm. Crank Webs Mid length breadth 280 mm. Thickness parallel to axis ✓  
as fitted 170 mm. Mid length thickness 85 mm. Thickness around eyelets ✓  
Flywheel Shaft, diameter as per Rule ✓ Intermediate Shaft, diameter as fitted ✓ Thickness of cylinder liners 22.5 mm.  
Is a governor or other arrangement fitted to prevent racing of the engine when decoupled 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 Lagged.  
Cooling Water Pumps, No. 1-35 mi<sup>3</sup>/H. Is the sea suction provided with an efficient strainer which can be cleaned within the vessel Yes.  
Lubricating Oil Pumps, No. and size 1-2 mi<sup>3</sup>/H.

Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓  
Scavenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓  
AIR RECEIVERS Have they been made under Survey Yes. State No. of Report or Certificate ✓  
Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes.  
Can the internal surfaces of the receivers be examined Yes. What means are provided for cleaning their inner surfaces Manhole.  
Is there a drain arrangement fitted at the lowest part of each receiver Yes.

High Pressure Air Receivers, No. ✓ Cubic capacity of each ✓ External diameter ✓ Thickness ✓  
Seamless, lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓  
Starting Air Receivers, No. 2. Total cubic capacity 12 mi<sup>3</sup>. Internal diameter 1450 mm. Thickness 25 mm.  
Seamless, lap welded or riveted longitudinal joint Riveted. I.M. steel. Range of tensile strength 41.1-46.9 kg./mm<sup>2</sup>. Working pressure by Rules 31.2 kg./cm<sup>2</sup>.

Pressure of supply 230 Volts Full Load Current 435 Amperes Direct or Alternating Current Direct.  
Is alternating current system, with the possibility of Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off Yes.  
Generators are they compensated as per rule Yes. Is an adjustable regulating resistance fitted in series with each generator Yes.  
Are they so placed or secured 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 110 kv. full load rating have the M.A. supplied certificates as list Yes. and do the results comply with the requirements.

If the generators are 110 kv. or over have they been built and tested under survey Yes.  
PLANS Are approved plans forwarded herewith for Approval 10.2.1943 Remarks 10.2.1943 Separate Tank See plans of oil fuel bunker!  
SEALING 1 cylinder cover. 1 cylinder liner. 1 piston.

Hockmms Mek. Västerviks A.B.  
sgd/ E. Lundegren / Kurt Söderlund

E.H.L.



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003450-003457-03382



General Remarks State quality of workmanship opinions as to class, etc. See report of main engine!

4752 300 2 1/2 ✓ 112 1/2 ✓ 157 1/2 ✓ 970.0 ✓ 11 940 ✓ 300 2 1/2 ✓ <sup>stand</sup>link K.N.G. Ref. 9.12.42 J.V.H. ✓ 130 5 1/2 ✓ 86.56 ✓ 130 5 1/2 ✓  
4.100 3 1/2 ✓ 26.43 ✓ 4.100 2 3/4 ✓

Electric. H. B. Thrings, Odessa ✓  
 ✓  
 Sackls & blocks 80 minch. ✓  
 Steam. Hlgs. Vays Q. B. 4 life boats. ✓  
 None. ✓  
 Sack. steel coamings .44 ✓  
 Sack. 11'-3" x 11'-2" ✓ Sack. 5' x 2.5' x 2' φ 2 φ 4' x 4' - 4' x 2.5' ✓  
 None. ✓  
 Hockmms mek. Verke tads Q. B. sgd/ G. hundegrist ✓  
 Kurt Pöderlund.

Motoranker ✓

The workmanship and the materials are both good. ✓

All cargo oil tanks, cofferdams, oil fuel bunkers and daily oil fuel tanks, deep tanks forward, all compartments in double bottoms under motor space, the peak tanks and the fresh water tanks aft have been tested as required by the Rules. The decks and structural members are in good condition.


The dukes and watertight bulkheads, clear of tanks and cofferdams have been tested by water from a hose and found tight.

Forgings and castings as per reports enclosed. ✓

Windlass & steering arrangements <sup>have</sup> been tried under working conditions. See letter Lot 4.8.44.

Overboard

FRI. 14 JUL 1944

 100 R 1  
 Carrying Polesmen in Bunk.  
 Adundin. R. R. R.  
 S

+100A/ Carry? Put in Rk  
ncky aft. + LMC 4.44. Oil Eng  
2. DB 14. Ch

write ~~lies~~

FRI. 14 JUL 1944

see minute  
on I.R.P.

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003450-003467-02382



Under Vessel "Glimmerghorn", Report No. 2164.

Plans of the vessel as built, in number, i.e. Midship Section, Outright  
Bulbhead, Profile and Plans are forwarded under separate cover. also Fore Peak  
Approved plans, as per list enclosed herewith, are forwarded under  
separate cover.

( 300 fathoms  $2\frac{1}{2}$ " chain cable placed onboard marked as follows:-  
J & H 9.12.42. KNE 4752. 112 10.0.0 B. 157 10.0.0  
Marks to be compared with certificate of test. )

Marks on cables compared with certificate of test on the  
2nd May, 1944. ✓

Beams and butts of shell, deck, stringer, tank top  
and bulbhead plating are butt-welded. Angle of rise about fifty degrees.  
All other connections as per approved plans.  
Electrodes: OK 52 P, Z 2 and Z E.

Longitudinal framing.  
Electrically welded. Curvature stern.

Vessel equipped with: Winches, E. S. D. and G. F.

Stems	Shade	2694 kgs. J.Q. 2114. 19.4.43.	Shade	1417 kgs. J.Q. 2118. 19.4.43	
		2541 " " 2115. 19.4.43.		1415 " " 2119. 19.4.43	
		2710 " " 2116. 19.4.43.		1399 " " 2120. 19.4.43.	
		1277 " " 2117. 19.4.43.			
		90.55		34.61	63.4

8644

SEVT

496.27

1 dk. 2nd dk. clear of cargo tanks.

Peak tanks and well at after end of engine

rooms.

Fuel oil. { 65.25 177  
Lube " { (22)  
65.25 177

Oil fuel bunkers. 9.84  
36  
W. Tanks above R.P.T.

88 -  
110 -  
421 -  
576 -  
133 -

109.

2nd Oct. 1941.

27. 27. 127. 137. 147. 157. 167. 177. 187. 197. 207. 217. 227. 237. 247. 257. 267. 277. 287. 297. 307. 317. 327. 337. 347. 357. 367. 377. 387. 397. 407. 417. 427. 437. 447. 457. 467. 477. 487. 497. 507. 517. 527. 537. 547. 557. 567. 577. 587. 597. 607. 617. 627. 637. 647. 657. 667. 677. 687. 697. 707. 717. 727. 737. 747. 757. 767. 777. 787. 797. 807. 817. 827. 837. 847. 857. 867. 877. 887. 897. 907. 917. 927. 937. 947. 957. 967. 977. 987. 997. 1007. 1017. 1027. 1037. 1047. 1057. 1067. 1077. 1087. 1097. 1107. 1117. 1127. 1137. 1147. 1157. 1167. 1177. 1187. 1197. 1207. 1217. 1227. 1237. 1247. 1257. 1267. 1277. 1287. 1297. 1307. 1317. 1327. 1337. 1347. 1357. 1367. 1377. 1387. 1397. 1407. 1417. 1427. 1437. 1447. 1457. 1467. 1477. 1487. 1497. 1507. 1517. 1527. 1537. 1547. 1557. 1567. 1577. 1587. 1597. 1607. 1617. 1627. 1637. 1647. 1657. 1667. 1677. 1687. 1697. 1707. 1717. 1727. 1737. 1747. 1757. 1767. 1777. 1787. 1797. 1807. 1817. 1827. 1837. 1847. 1857. 1867. 1877. 1887. 1897. 1907. 1917. 1927. 1937. 1947. 1957. 1967. 1977. 1987. 1997. 2007. 2017. 2027. 2037. 2047. 2057. 2067. 2077. 2087. 2097. 2107. 2117. 2127. 2137. 2147. 2157. 2167. 2177. 2187. 2197. 2207. 2217. 2227. 2237. 2247. 2257. 2267. 2277. 2287. 2297. 2307. 2317. 2327. 2337. 2347. 2357. 2367. 2377. 2387. 2397. 2407. 2417. 2427. 2437. 2447. 2457. 2467. 2477. 2487. 2497. 2507. 2517. 2527. 2537. 2547. 2557. 2567. 2577. 2587. 2597. 2607. 2617. 2627. 2637. 2647. 2657. 2667. 2677. 2687. 2697. 2707. 2717. 2727. 2737. 2747. 2757. 2767. 2777. 2787. 2797. 2807. 2817. 2827. 2837. 2847. 2857. 2867. 2877. 2887. 2897. 2907. 2917. 2927. 2937. 2947. 2957. 2967. 2977. 2987. 2997. 3007. 3017. 3027. 3037. 3047. 3057. 3067. 3077. 3087. 3097. 3107. 3117. 3127. 3137. 3147. 3157. 3167. 3177. 3187. 3197. 3207. 3217. 3227. 3237. 3247. 3257. 3267. 3277. 3287. 3297. 3307. 3317. 3327. 3337. 3347. 3357. 3367. 3377. 3387. 3397. 3407. 3417. 3427. 3437. 3447. 3457. 3467. 3477. 3487. 3497. 3507. 3517. 3527. 3537. 3547. 3557. 3567. 3577. 3587. 3597. 3607. 3617. 3627. 3637. 3647. 3657. 3667. 3677. 3687. 3697. 3707. 3717. 3727. 3737. 3747. 3757. 3767. 3777. 3787. 3797. 3807. 3817. 3827. 3837. 3847. 3857. 3867. 3877. 3887. 3897. 3907. 3917. 3927. 3937. 3947. 3957. 3967. 3977. 3987. 3997. 4007. 4017. 4027. 4037. 4047. 4057. 4067. 4077. 4087. 4097. 4107. 4117. 4127. 4137. 4147. 4157. 4167. 4177. 4187. 4197. 4207. 4217. 4227. 4237. 4247. 4257. 4267. 4277. 4287. 4297. 4307. 4317. 4327. 4337. 4347. 4357. 4367. 4377. 4387. 4397. 4407. 4417. 4427. 4437. 4447. 4457. 4467. 4477. 4487. 4497. 4507. 4517. 4527. 4537. 4547. 4557. 4567. 4577. 4587. 4597. 4607. 4617. 4627. 4637. 4647. 4657. 4667. 4677. 4687. 4697. 4707. 4717. 4727. 4737. 4747. 4757. 4767. 4777. 4787. 4797. 4807. 4817. 4827. 4837. 4847. 4857. 4867. 4877. 4887. 4897. 4907. 4917. 4927. 4937. 4947. 4957. 4967. 4977. 4987. 4997. 5007. 5017. 5027. 5037. 5047. 5057. 5067. 5077. 5087. 5097. 5107. 5117. 5127. 5137. 5147. 5157. 5167. 5177. 5187. 5197. 5207. 5217. 5227. 5237. 5247. 5257. 5267. 5277. 5287. 5297. 5307. 5317. 5327. 5337. 5347. 5357. 5367. 5377. 5387. 5397. 5407. 5417. 5427. 5437. 5447. 5457. 5467. 5477. 5487. 5497. 5507. 5517. 5527. 5537. 5547. 5557. 5567. 5577. 5587. 5597. 5607. 5617. 5627. 5637. 5647. 5657. 5667. 5677. 5687. 5697. 5707. 5717. 5727. 5737. 5747. 5757. 5767. 5777. 5787. 5797. 5807. 5817. 5827. 5837. 5847. 5857. 5867. 5877. 5887. 5897. 5907. 5917. 5927. 5937. 5947. 5957. 5967. 5977. 5987. 5997. 6007. 6017. 6027. 6037. 6047. 6057. 6067. 6077. 6087. 6097. 6107. 6117. 6127. 6137. 6147. 6157. 6167. 6177. 6187. 6197. 6207. 6217. 6227. 6237. 6247. 6257. 6267. 6277. 6287. 6297. 6307. 6317. 6327. 6337. 6347. 6357. 6367. 6377. 6387. 6397. 6407. 6417. 6427. 6437. 6447. 6457. 6467. 6477. 6487. 6497. 6507. 6517. 6527. 6537. 6547. 6557. 6567. 6577. 6587. 6597. 6607. 6617. 6627. 6637. 6647. 6657. 6667. 6677. 6687. 6697. 6707. 6717. 6727. 6737. 6747. 6757. 6767. 6777. 6787. 6797. 6807. 6817. 6827. 6837. 6847. 6857. 6867. 6877. 6887. 6897. 6907. 6917. 6927. 6937. 6947. 6957. 6967. 6977. 6987. 6997. 7007. 7017. 7027. 7037. 7047. 7057. 7067. 7077. 7087. 7097. 7107. 7117. 7127. 7137. 7147. 7157. 7167. 7177. 7187. 7197. 7207. 7217. 7227. 7237. 7247. 7257. 7267. 7277. 7287. 7297. 7307. 7317. 7327. 7337. 7347. 7357. 7367. 7377. 7387. 7397. 7407. 7417. 7427. 7437. 7447. 7457. 7467. 7477. 7487. 7497. 7507. 7517. 7527. 7537. 7547. 7557. 7567. 7577. 7587. 7597. 7607. 7617. 7627. 7637. 7647. 7657. 7667. 7677. 7687. 7697. 7707. 7717. 7727. 7737. 7747. 7757. 7767. 7777. 7787. 7797. 7807. 7817. 7827. 7837. 7847. 7857. 7867. 7877. 7887. 7897. 7907. 7917. 7927. 7937. 7947. 7957. 7967. 7977. 7987. 7997. 8007. 8017. 8027. 8037. 8047. 8057. 8067. 8077. 8087. 8097. 8107. 8117. 8127. 8137. 8147. 8157. 8167. 8177. 8187. 8197. 8207. 8217. 8227. 8237. 8247. 8257. 8267. 8277. 8287. 8297. 8307. 8317. 8327. 8337. 8347. 8357. 8367. 8377. 8387. 8397. 8407. 8417. 8427. 8437. 8447. 8457. 8467. 8477. 8487. 8497. 8507. 8517. 8527. 8537. 8547. 8557. 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13057. 13067. 13077. 13087. 13097. 13107. 13117. 13127. 13137. 13147. 13157. 13167. 13177. 13187. 13197. 13207. 13217. 13227. 13237. 13247. 13257. 13267. 13277. 13287. 13297. 13307. 13317. 13327. 13337. 13347. 13357. 13367. 13377. 13387. 13397. 13407. 13417. 13427. 13437. 13447. 13457. 13467. 13477. 13487. 13497. 13507. 13517. 13527. 13537. 13547. 13557. 13567. 13577. 13587. 13597. 13607. 13617. 13627. 13637. 13647. 13657. 13667. 13677. 13687. 13697. 13707. 13717. 13727. 13737. 13747. 13757. 13767. 13777. 13787. 13797. 13807. 13817. 13827. 13837. 13847. 13857. 13867. 13877. 13887. 13897. 13907. 13917. 13927. 13937. 13947. 13957. 13967. 13977. 13987. 13997. 14007. 14017. 14027. 14037. 14047. 14057. 14067. 14077. 14087. 14097. 14107. 14117. 14127. 14137. 14147. 14157. 14167. 14177. 14187. 14197. 14207. 14217. 14227. 14237. 14247. 14257. 14267. 14277. 14287. 14297. 14307. 14317. 14327. 14337. 14347. 14357. 14367. 14377. 14387. 14397. 14407. 14417. 14427. 14437. 14447. 14457. 14467. 14477. 14487. 14497. 14507. 14517. 14527. 14537. 14547. 14557. 14567. 14577. 14587. 14597. 14607. 14617. 14627. 14637. 14647. 14657. 14667. 14677. 14687. 14697. 14707. 14717. 14727. 14737. 14747. 14757. 14767. 14777. 14787. 14797. 14807. 14817. 14827. 14837. 14847. 14857. 14867. 14877. 14887. 14897. 14907. 14917. 14927. 14937. 14947. 14957. 14967. 14977. 14987. 14997. 15007. 15017. 15027. 15037. 15047. 15057. 15067. 15077. 15087. 15097. 15107. 15117. 15127. 15137. 15147. 15157. 15167. 15177. 15187. 15197. 15207. 15217. 15227. 15237. 15247. 15257. 15267. 15277. 15287. 15297. 15307. 15317. 15327. 15337. 15347. 15357. 15367. 15377. 15387. 15397. 15407. 15417. 15427. 15437. 15447. 15457. 15467. 15477. 15487. 15497. 15507. 15517. 15527. 15537. 15547. 15557. 15567. 15577. 15587. 15597. 15607. 15617. 15627. 15637. 15647. 15657. 15667. 15677. 15687. 15697. 15707. 15717. 15727. 15737. 15747. 15757. 15767. 15777. 15787. 15797. 15807. 15817. 15827. 15837. 15847. 15857. 15867. 15877. 15887. 15897. 15907. 15917. 15927. 15937. 15947. 15957. 15967. 15977. 15987. 15997. 16007. 16017. 16027. 16037. 16047. 16057. 16067. 16077. 16087. 16097. 16107. 16117. 16127. 16137. 16147. 16157. 16167. 16177. 16187. 16197. 16207. 16217. 16227. 16237. 16247. 16257. 16267. 16277. 16287. 16297. 16307. 16317. 16327. 16337. 16347. 16357. 16367. 16377. 16387. 16397. 16407. 16417. 16427. 16437. 16447. 16457. 16467. 16477. 16487. 16497. 16507. 16517. 16527. 16537. 16547. 16557. 16567. 16577. 16587. 16597. 16607. 16617. 16627. 16637. 16647. 16657. 16667. 16677. 16687. 16697. 16707. 16717. 16727. 16737. 16747. 16757. 16767. 16777. 16787. 16797. 16807. 16817. 16827. 16837. 16847. 16857. 16867. 16877. 16887. 16897. 16907. 16917. 16927. 16937. 16947. 16957. 16967. 16977. 16987. 16997. 17007. 17017. 17027. 17037. 17047. 17057. 17067. 17077. 17087. 17097. 17107. 17117. 17127. 17137. 17147. 17157. 17167. 17177. 17187. 17197. 17207. 17217. 17227. 17237. 17247. 17257. 17267. 17277. 17287. 17297. 17307. 17317. 17327. 17337. 17347. 17357. 17367. 17377. 17387. 17397. 17407.