Rpt. 13.

No. 35304

## REPORT ON ELECTRICAL EQUIPMENT. (OTHER THAN FOR THE PROPULSION OF THE VESSEL) Received at London Office.

Date of writing Report I 7.2.50 19 When handed in at Local Office 19 Port of Sunderland
No. in Survey held at Sunderland Date, First Survey 9.II.49 Last Survey I3.2.50 19.  Reg. Book.
on the move "FRILIPES"
Built at Sunderland By whom built John Crown & Sons Ltd Yard No. 230 When built 1950
Owners N.V. Nederlands Indonesische Port belonging to The Hague, Netherland
to mak albeit and any 177
Installation fitted by Sunderland Forge & Engineering Co.Ltd When fitted 1950
Is vessel equipped for carrying Petroleum in bulkyes Is vessel equipped with D.F. yes E.S.D. yes Gy.C. yes Sub.Sig.no Radar no
Plans, have they been submitted and approved Yes System of Distribution 2-wire. Voltage of Lighting IIO
Heating - Power IIO D.C. or A.C., Lighting D.C. Power D.G. If A.C. state frequency -
Prime Movers, has the governing been found as per Rule when full load is thrown on and off
with a trip switch
if not compound wound state distance between generators
in parallel, are shunt field regulators provided
negative
test for machines under 100 kw. been supplied. yes and the results found as per Rule. yes
Position of Generators engine room sloor level, starboard side
is the ventilation in way of generators satisfactory yes are they clear of inflammable material and protected from mechanical injury and damage from water, steam and oil yes. Switchboards, where are main switchboards placed on raised platform near
generators
are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,
steam and oil
material is it an Approved Type, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as
per Rule Is the construction as per Rule, including locking of screws and nuts Description of Main Switchgear
for each generator and arrangement of equaliser switches a double pole, quick-break knife switch and fuses
and the switch and fuse gear (or circuit breakers) for each outgoing circuit. as for generators
45.
Are compartments containing switchboards composed of fire-resisting material or lined as per Ruleyes. Instruments on main switchboard
ammeters synchronising devices. For compound machines in parallel are the ammeters and reversed current
protection devices connected on the pole opposite to the equaliser connection Earth Testing, state means provided E.lamps
Switches Circuit Prockers and Fuses are they as nor Parla Too
Switches, Circuit Breakers and Fuses, are they as per Rule
make of fuses
Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule yes
Cables, are they insulated and protected as per Rule, if otherwise than as per Rule are they of an Approved Type,
state maximum fall of pressure between bus bars and any point under maximum load
, are the ends of all cables having a sectional
area of 0.01 square inch and above provided with soldering sockets
area of 0.01 square inch and above provided with soldering sockets
area of 0.01 square inch and above provided with soldering sockets
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area of 0.01 square inch and above provided with soldering sockets



Alternative Light	hting, are	the groups of	f lights in th	e engine an	ow outer rooms	s arrangea	as per Ku	iley.es		C 7 11 57 create poors.
Navigation Lam	ps, are the	y separately	wired yes	controlle	d by separate	double pol	le switches	and fuse	syes	Are the switches and fuses
										ive supply provided
		house I was n	er.							tilated.
state battery cap				<b>学</b> 第二人主张					n derla	
	E16.00								ndensed n	noisture, weatherproofyes
								1 11 22	是是其心理是是	to be present.yes
02				T.E. BREDGE	the property of	RESERVE TA				ntrecastle.
		and the second								itably ventilatedyes
										lament type
		2000	7							are heaters in th
										and placed in well-ventilate
										yes
									-	the event of fire in the pum
										ure and testing
										found as per Rule
										the Rules for such shire has
										the Rules for such ships bee
									- Mr Mr M M M M M M	d covered as per Ruleyes
										ditto starb.
										itionsyes
Insulation Tests,	has the ins	ulation resis	tance of all c	circuits and	apparatus bee	n tested a	nd found	satisfacto	ory	yes
			P		RS OF GENER	ATING P	LANT.			
DESCRIPTION	No. of	MAK	dainti	3 \$400 B	RATED	AT				PRIME MOVER.
GENERATOR.			ER.	Kilowatta			Revs			
				Kilowatts per Generato		Ampères.	Revs. per Min.	Dec along	PE.	MAKER.
MAIN	I	S.F.&.E	ng.Co.Lt	per Generato	110	182	per Min. 675	Stea	ım	S.F.&.E.Co.Ltd
	I I			per Generato	110		per Min.	Dec along	ım	
MAIN	I	S.F.&.E		per Generato	110	182	per Min. 675	Stea	ım	S.F.&.E.Co.Ltd
MAIN	I	S.F.&.E		per Generato	110	182	per Min. 675	Stea	ım	S.F.&.E.Co.Ltd
MAIN EMERGENCY ROTARY	I	S.F.&.E		per Generato d 20 20	IIO IIO	182	675 675	Stea	um sel	S.F.&.E.Co.Ltd
MAIN EMERGENCY ROTARY	I	S.F.&.E	ng.Co.Lt	per Generato d. 20 20	110	182 182 BLES.	per Min. 675 675	Stes Dies Approx.	el.	S.F.&.E.Co.Ltd
EMERGENCY ROTARY TRANSFORMER	I I CRIPTION.	S.F.&.E	ng.Co.Lt	GH CON No. in Parallel	IIO IIO IIO OUCTORS. Sectional Area or No. and Dia. of Strands.	182 182 BLES.  MAXIMUM IN AME	per Min. 675 675 CURRENT PERES.	Stea	um sel	S.F.&.E.Co.Ltd
EMERGENCY ROTARY TRANSFORMER  DESC	CRIPTION.	S.F.&.E	ng.Co.Lt	gr Generato d 20 20 GI CON No, in	ENERATOR CADUCTORS. Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	J82 J82 BLES.  MAXIMUM IN AME In the Circuit.	current Eres.	APPROX. LENGTH (lead plus return feet).	INSULATION.	S.F.&.E.Co.Ltd Ruston & Hornsby  PROTECTIVE COVERING.
MAIN  EMERGENCY ROTARY TRANSFORMER  DESC	CRIPTION.	S.F.&.E	ng.Co.Lt	GH CON No. in Parallel	IIO IIO IIO OUCTORS. Sectional Area or No. and Dia. of Strands.	182 182 BLES.  MAXIMUM IN AME	per Min. 675 675 CURRENT PERES.	Dies Dies APPROX. LENGTH (lead plus	insula	S.F.&.E.Co.Ltd Ruston & Hornsby
EMERGENCY ROTARY TRANSFORMER  DESC	CRIPTION.	S.F.&.E	ng.Co.Lt	GH CON No. in Parallel	ENERATOR CADUCTORS. Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	J82 J82 BLES.  MAXIMUM IN AME In the Circuit.	current Eres.	APPROX. LENGTH (lead plus return feet).	INSULATION.	S.F.&.E.Co.Ltd Ruston & Hornsby  PROTECTIVE COVERING.
MAIN  EMERGENCY ROTARY TRANSFORMER  DESC	CRIPTION.	S.F.&.E	kilowatts.	GI CON No. in Parallel per Pole.	ENERATOR CADUCTORS. Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	I82 I82 BLES.  MAXIMUM IN AME Circuit. I82	CURRENT ERES. Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.  V.C.	S.F.&.E.Co.Ltd Ruston & Hornsby  PROTECTIVE COVERING. L.C.A.B.
MAIN  EMERGENCY ROTARY TRANSFORMER  DESC	DRIPTION.	S.F.&.E	kilowatts.	GI CON No. in Parallel per Pole.	ENERATOR CADUCTORS. Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	I82 I82 BLES.  MAXIMUM IN AME Circuit. I82	CURRENT ERES. Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.  V.C.	S.F.&.E.Co.Ltd Ruston & Hornsby  PROTECTIVE COVERING. L.C.A.B.
EMERGENCY ROTARY TRANSFORMER  DESC	CRIPTION.	Steam Diesel	kilowatts.	GI CON No. in Parallel per Pole.	ENERATOR CADUCTORS. Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	BLES.  MAXIMUM IN AME Circuit.  182	CURRENT ERES. Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.  V.C.	S.F.&.E.Co.Ltd Ruston & Hornsby  PROTECTIVE COVERING. L.C.A.B.
MAIN  EMERGENCY  ROTARY TRANSFORMER  DESC	PQUALIS	Steam Diesel	kilowatts.	GI CON No. in Parallel per Pole.	ENERATOR CADUCTORS. Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm. 19/.083	BLES.  MAXIMUM IN AME Circuit.  182	CURRENT ERES. Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.  V.C.	S.F.&.E.Co.Ltd Ruston & Hornsby  PROTECTIVE COVERING.  L.C.A.B.
MAIN  EMERGENCY  ROTARY  TRANSFORMER  DESC  MAIN GENERATOR  " " "	POUALIS  RATOR  RMER: MO	Steam Diesel	KILOWATTS.	GI CON No. in Parallel per Pole.	ENERATOR CADUCTORS. Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm. 19/.083	BLES.  MAXIMUM IN AME Circuit.  182	CURRENT ERES. Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.  V.C.	S.F.&.E.Co.Ltd Ruston & Hornsby  PROTECTIVE COVERING.  L.C.A.B.
MAIN  EMERGENCY ROTARY TRANSFORMER  DESC  MAIN GENERATOR  " "  EMERGENCY GENE ROTARY TRANSFOR	POUALIS  RATOR  RMER: MO	Steam Diesel	KILOWATTS.	GF  CON No. in Parallel per Pole.  I	ENERATOR CADUCTORS. Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm. 19/.083	BLES.  MAXIMUM IN AME Circuit.  182	CURRENT ERES. Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.  V.C.	S.F.&.E.Co.Ltd Ruston & Hornsby  PROTECTIVE COVERING.  L.C.A.B.
MAIN  EMERGENCY ROTARY TRANSFORMER  DESC  MAIN GENERATOR  " "  EMERGENCY GENE ROTARY TRANSFOR	PQUALIS  ERATOR  EMER: MO	Steam Diesel	kilowatts.	GI  CON  No. in Parallel per Pole.  I	ENERATOR CADUCTORS. Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm. 19/.083	I82 I82  BLES.  MAXIMUM IN AME Circuit. I82  I82	CURRENT ERES. Rule. 202	APPROX. LENGTH (lead plus return feet).  78	INSULATION.  V.C.	S.F.&.E.Co.Ltd Ruston & Hornsby  PROTECTIVE COVERING.  L.C.A.B.
MAIN  EMERGENCY ROTARY TRANSFORMER  DESC  MAIN GENERATOR  " "  EMERGENCY GENE ROTARY TRANSFOR	PQUALIS  ERATOR  EMER: MO	Steam Diesel  TOR NERATOR	kilowatts.	GI  CON  No. in Parallel per Pole.  I	ENERATOR CADUCTORS. Sectional Area or No. and Dia. of Strands, Sq. ins. or sq. mm. 19/.083	I82 I82  BLES.  MAXIMUM IN AME Circuit. I82  I82	CURRENT ERES. Rule. 202	APPROX. LENGTH (lead plus return feet).  78	INSULATION.  V.C.	S.F.&.E.Co.Ltd Ruston & Hornsby  PROTECTIVE COVERING.  L.C.A.B.
MAIN  EMERGENCY ROTARY TRANSFORMER  DESC  MAIN GENERATOR  " "  EMERGENCY GENE ROTARY TRANSFOR	PQUALIS  ERATOR  BEMER: MO  GE  DESCRIPTOR	Steam Diesel  TOR NERATOR	kilowatts.	GI  CON  No. in Parallel per Pole.  I	ENERATOR CADUCTORS. Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm. 19/.083	I82 I82  BLES.  MAXIMUM IN AME Circuit. I82  I82	CURRENT ERES. Rule. 202	APPROX. LENGTH (lead plus return feet).  78	INSULATION.  V.C.  V.C.	S.F.&.E.Co.Ltd Ruston & Hornsby  PROTECTIVE COVERING.  L.C.A.B.
MAIN  EMERGENCY  ROTARY  TRANSFORMER  DESC  MAIN GENERATOR  " " "  EMERGENCY GENE  ROTARY TRANSFOE  " " "	PQUALIS  ERATOR  BEMER: MO  GE  DESCRIPTOR	Steam Diesel  TOR NERATOR	kilowatts.	GH CON No. in Parallel per Pole.	IIO IIO IIO IIO IIO IIO IIO SNERATOR CA DUCTORS. Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm. I9/.083	I82 I82  BLES.  MAXIMUM IN AMP Circuit, I82  I82  I82  I86  I66	CURRENT ERES. Rule. 202 202	APPROX. LENGTH (lead plus return feet).  78  58	INSULATION.  V.C.  V.C.	S.F.&.E.Co.Ltd Ruston & Hornsby  PROTECTIVE COVERING.  L.C.A.B.
MAIN  EMERGENCY  ROTARY TRANSFORMER  DESC  MAIN GENERATOR  " "  EMERGENCY GENE ROTARY TRANSFOR  " "  Midship S.B.  Aft S.B.2.  Aft S.B.3.	PQUALIS  GRATOR  BRATOR  CRIPTION.	Steam Diesel  TOR NERATOR	KILOWATTS.  20  20  RIBUTION C	GH CON No. in Parallel per Pole.  I  CABLES (to	IIO	BLES.  MAXIMUM IN AME In the Circuit.  182  182  182  45	CURRENT ERES. Rule. 202 202 bution Fu	APPROX. LENGTH (lead plus return feet).  78 58 18e Board 120 120	INSULATION.  V.C.  V.C.	S.F.&.E.Co.Ltd Ruston & Hornsby  PROTECTIVE COVERING.  L.C.A.B.  L.C.A.B.
MAIN  EMERGENCY  ROTARY TRANSFORMER  DESC  MAIN GENERATOR  " "  EMERGENCY GENE ROTARY TRANSFOR  " "  Midship S.B.  Aft S.B.2.  Aft S.B.3.  E.R.Vent Fan	PQUALIS  GRATOR  EMER: MO  GE  DESCRIPT  I.	Steam Diesel  OTOR NERATOR  MAIN DIST	KILOWATTS.  20  20  RIBUTION C	GH CON No. in Parallel per Pole.  I  CABLES (to	IIO	I82 I82 IBLES.  MAXIMUM IN AME Circuit. I82 I82  I856 I66 I66 I65 I65 I65 I65 I65 I65 I65 I	CURRENT ERES. Rule. 202 202 button Fu	APPROX. LENGTH (lead plus return feet).  78  58  18e Board  480  120  120  50	INSULATION.  V.C.  V.C.	PROTECTIVE COVERING.  L.C.A.B.  L.C.A.B.
MAIN  EMERGENCY  ROTARY  TRANSFORMER  DESC  MAIN GENERATOR  " " "  EMERGENCY GENE  ROTARY TRANSFOE  " " "  Midship S.B.  Aft S.B.2.  Aft S.B.3.  E.R. Vent Fan  Shore Connec	POUALIS  BRATOR  BRATOR	Steam Diesel  TOB NERATOR  MAIN DIST	KILOWATTS.  20  20  RIBUTION C	GH  CON  No, in Parallel per Pole.  I  I  I  I  I  I  I  I  I  I  I  I  I	IIO	I82 I82 I82  BLES.  MAXIMUM IN AME Circuit. I82  I82  I856  I66  I66  I65  I65  I65  I65  I6	CURRENT ERES. Rule. 202 202 bution Full 80 80 80 202	APPROX. LENGTH (lead plus return feet).  78  58  18e Board  120  120  180	INSULATION.  V.C.  V.C.	PROTECTIVE COVERING.  L.C.A.B.  L.C.A.B.
MAIN  EMERGENCY  ROTARY  TRANSFORMER  DESC  MAIN GENERATOR  " " "  EMERGENCY GENE  ROTARY TRANSFOE  " " "  Midship S.B.  Aft S.B.2.  Aft S.B.3.  E.R. Vent Fan  Shore Connec	POUALIS  BRATOR  BRATOR	Steam Diesel  TOR NERATOR MAIN DIST	KILOWATTS.  20  20  RIBUTION C	GH  CON  No. in Parallel per Pole.  I  I  I  I  I  I  I  I  I  I  I  I  I	IIO	I82 I82  BLES.  MAXIMUM IN AMP Circuit, I82  I82  I856  I66  I66  I66  I66  I66  I66  I6	CURRENT ERES. Rule. 202 202 bution Full 80 80 80 202	APPROX. LENGTH (lead plus return feet).  78 58 58 120 120 180	INSULATION.  V.C.  V.C.	PROTECTIVE COVERING.  L.C.A.B.  L.C.A.B.
MAIN  EMERGENCY  ROTARY  TRANSFORMER  DESC  MAIN GENERATOR  " " "  EMERGENCY GENE  ROTARY TRANSFOE  " " "  Midship S.B.  Aft S.B.2.  Aft S.B.3.  E.R. Vent Fan  Shore Connec	POUALIS  BRATOR  BRATOR	Steam Diesel  TOR NERATOR MAIN DIST	KILOWATTS.  20  20  RIBUTION C	GH  CON  No. in Parallel per Pole.  I  I  I  I  I  I  I  I  I  I  I  I  I	IIO	I82 I82 I82  BLES.  MAXIMUM IN AME Circuit. I82  I82  I856  I66  I66  I65  I65  I65  I65  I6	CURRENT ERES. Rule. 202 202 314 80 80 202	APPROX. LENGTH (lead plus return feet).  78  58  18e Board  120  120  180	INSULATION.  V.C.  V.C.	PROTECTIVE COVERING.  L.C.A.B.  L.C.A.B.
MAIN  EMERGENCY  ROTARY  TRANSFORMER  DESC  MAIN GENERATOR  " " "  EMERGENCY GENE  ROTARY TRANSFOE  " " "  Midship S.B.  Aft S.B.2.  Aft S.B.3.  E.R. Vent Fan  Shore Connec	POUALIS  BRATOR  BRATOR	Steam Diesel  TOR NERATOR MAIN DIST	KILOWATTS.  20  20  RIBUTION C	GH  CON  No. in Parallel per Pole.  I  I  I  I  I  I  I  I  I  I  I  I  I	IIO	I82 I82  BLES.  MAXIMUM IN AMP Circuit, I82  I82  I856  I66  I66  I66  I66  I66  I66  I6	CURRENT ERES. Rule. 202 202 314 80 80 202	APPROX. LENGTH (lead plus return feet).  78 58 58 120 120 180	INSULATION.  V.C.  V.C.	PROTECTIVE COVERING.  L.C.A.B.  L.C.A.B.
MAIN  EMERGENCY  ROTARY  TRANSFORMER  DESC  MAIN GENERATOR  " " "  EMERGENCY GENE  ROTARY TRANSFOE  " " "  Midship S.B.  Aft S.B.2.  Aft S.B.3.  E.R. Vent Fan  Shore Connec	POUALIS  BRATOR  BRATOR	Steam Diesel  TOR NERATOR MAIN DIST	KILOWATTS.  20  20  RIBUTION C	GH  CON  No. in Parallel per Pole.  I  I  I  I  I  I  I  I  I  I  I  I  I	IIO	I82 I82  BLES.  MAXIMUM IN AMP Circuit, I82  I82  I856  I66  I66  I66  I66  I66  I66  I6	CURRENT ERES. Rule. 202 202 314 80 80 202	APPROX. LENGTH (lead plus return feet).  78 58 58 120 120 180	INSULATION.  V.C.  V.C.	PROTECTIVE COVERING.  L.C.A.B.  L.C.A.B.

LIG	HTING	, HEATII	NG, WIRE	LESS, NAVIG	ATION LI	GHTS, E	TC., CABI	ES.	
			1	DUCTORS.	MAXIMUM IN AM			1	PROTECTIVE COVERING.
DESCRIPTION.			Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPLOX. LENGTH (lead flus return fet).	TION.	PROTECTIVE COVERING.
avigation D.B., Main Suppl	v		I	7/.029	15 V	15	52	V.I.R.	L.C.
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ridge Deck DB.D.3 from S	B.		I	7/.036	16 /	24	6		
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coop Deck DB 6 Cargo Ligh				7/.029	10.2	15	72		
" " 7 Starb.Ligh		<u> </u>	I	7/.044	29 /	31	40		<u> </u>
" 8 Port Light	ing		I	7/.044	26.5	31	124		
" " II Galley			I	7/.036	16 V	24	72		
ing.Rm.Lighting D.Bs 9 & 1			I	7/.036	2/20 4	24	2/ 15		L.C.A.B.
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ALL IMPORTANT MOTORS TO BE ENUMERATED.	l No.	B.H.P.	To the state of	TOTOR CABLE	as.	1-1-1-1-1	13-00-0	ela ara	moria .##0 go v
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ono Pump, Fridge Machy Rm		•75	I	7/.029	8 ✓	15	144		R. L.C.A.B.
alley Potato Peelers	2	I	I	7/.029	9 V	A STATE OF THE PARTY OF THE PAR	72	- 10	L.C.
orkshop motor	I	6	I	7/.036	18 🗸	9	220	- 11	
urning Motor		-	I	7/.064	51 \	80	180	V.C.	L.C.A.B.
ompressor(Standby)	I	IO	I	7/.064	80 /	80	124		
tandby Fuel Pump	I	21	I	7/.036	22	24	120	V.I.R	
il Puifier	I	21	I	7/.036	22 1	24	188	- 11	
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