OWNER'S HANDBOOK

FOR

BUKH MARINE DIESEL LIFEBOAT ENGINE **TYPE DV29 RME**





BUKH powering marine safety

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INTRODUCTION

BASIC ENGINE CONFIGURATION:

The BUKH Lifeboat engine is a four-stroke marine diesel engine with direct fuel injection and the following basic equipment:

Crankcase with oil pan, one-piece cylinder head with 2 valves per cylinder, forged crankshaft with counterweights, balance weights, cast iron connecting rods, light metal pistons, water-cooled exhaust manifold; all necessary pipework for exhaust, coolant, fuel and lubricating oil are fitted on engine.

A reverse/reduction gearbox with integrated thrust bearing is fitted on the engine.

All BUKH Diesel Lifeboat Engines are tested in the factory, and a test certificate according to SOLAS and ISO regulations is issued.

If a problem with the engine should arise, we ask you to apply to one of our distributors, who will always be ready to help you, having skilled personnel, necessary tools etc., and at the same time you will be sure that only original BUKH spare parts are used.

Do always use original BUKH spare parts.

When ordering spare parts from the distributor please state: Engine type and serial number, description and number of parts.

BUKH A/S Powering Marine Safety

As BUKH A/S is always endeavouring to improve the engines, the specifications mentioned are subject to alterations without previous notice.

Read this instruction book thoroughly before starting your new BUKH Diesel Engine.

STANDARD EQUIPMENT for DV29RME

Reverse-reduction gear
Decompression lever
Wet sump lubrication oil system
Full-flow lubrication oil filter
Automatic injection timing
Centrifugal governor
Keel cooling with thermostat
Watercooled exhaust manifold
Air inlet filter and silencer
Fuel lift pump
Electric start
Charging alternator
Operating remote panel with:
a) Charging light

- b) Lub. oil pressure warning light
- c) Cooling water temp. warning light
- d) Push button for start

Electric stop or mechanical stop e) Audible warning f) Fittings for remote control Standard set of tools Drain pump for lub. oil Following documentation is delivered with the engine: Operating manual with sparepart katalog 1. 2. Test certificate Declaration of conformity according to SOLAS and 3. IMO regulations. Flex. engine mounts (optional) Stern gear (optional) Raised hand start (optional) Spring start (optional) 2 El-start (optional) Hydro start (optional)

OPERATING MANUAL

Before the engine is put into use you are recommended to get familiar with the placing of the following components of engine and gear:

Fuel oil filter, lub oil filter and air intake filter, fuel lift pump with handle, zincrod in the crankcase and water-separator in the fuel pipe (if mounted).

Where is lub oil poured into engine and gear and where are the dipsticks placed? Where is fuel oil filled into the fuel tank and where is the drain plug placed? Where is the main switch?

Preparation before first start

- 1. Pour lubricating oil through filling hole on top of valve cover. Check that oil level is between the marks on the dipstick, placed at the port side of the engine. Check oil level as mentioned below:

 - a) remove and wipe dipstick
 - reinsert dipstick in the pipe b)
 - withdraw dipstick, check oil level. c)
- 2. Pour lubricating oil through dipstick hole on the top of reverse- and reduction gear and check oil level as described in pos 1.
- 3. Flexible sterntube: Lubricate the stuffing box with sterntube oil (outboard). Unscrew the filler plug and pour in oil until the bearing is full. Important: The stuffing box shall under no circumstances be force-lubricated.

These instructions are only valid for propeller equipment supplied by BUKH. If other equipment is mounted, we refer to the instructions given for this.

- We always recommend checking of oil level before start.
- 5. Fill the fuel tank.

4.

- 6. Bleed the fuel system as below:
 - Pump with the fuel lift pump handle until fuel is free from air bubbles seen a) in the hose to the fuel tank. After the pumping the pump handle must be locked in top position.
 - Loosen fuel pipe connection on the fuel valve, if neccessary. b)
 - Turn the engine until fuel is free from air bubbles. Retighten the pipe c) connection.

Normally it will not be necessary to bleed the fuel system before starting but after changing the fuel filter element or carrying out any work on the fuel system it should be bled in the following way: Loosen the bleed screw and operate the hand priming lever on the fuel lift pump until air-free fuel discharges from screw. Tighten bleed screw. Loosen high pressure pipe unions to injectors and turn engine until fuel discharges from pipes. Reconnect pipes to injectors. The engine will start in the normal way.

7. Bleed the cooling water system by removing the pressure cap. While engine is idling pour water into the expansion tank until system is free of air (loosen possible plug pos. 11 on the thermostat housing).

AFTER THE ENGINE HAS BEEN TAKEN INTO USE

Before start

- 1. The oil level of the engine should be checked every 14 days or every 25 hours of running as described in "Preparation before first start". It is not necessary to refill oil if the level is between the two marks on the dipstick.
- 2. The oil level of the reduction gear should be checked every 14 days or every 25 hours of running as described in "Preparation before first start".
- 3. The sterntube stuffing box should be lubricated every 14 days or every 25 hours of running.
- 4. Check the quantity of fuel in the tank.

Electric start with remote control and instrument panel

- Switch on the main switch.
 Dut the main switch.
- Put the marine gear in neutral position by means of the control handle. 2.
- 3. The engine is started by putting the switch into "RUN" position.
- 4. Push the "START" button until the engine starts. The starter should not work for more than 10-15 secs. continuously.

Hand start (optional)

- 1. Put the gear lever in neutral position.
- 2. Turn decompression lever on valve cover clockwise as far as possible.
- 3. Engage starting handle and crank engine as quickly as possible. Release decompressor by turning lever anticlockwise while cranking and engine will start.
- 4. By hand start in cold weather you may achieve an easier start after having cranked the engine with activated decompression lever before the starting procedure.

Never accelerate a cold engine. Let it get warm first.









After Start

- 1. When the engine has started, the RPM should be 800-1000 RPM when idling.
- Check the oil pressure. Normally this should be 2-4.5 bar. With cold engine the RPM should be kept down so that the oil 2. pressure does not exceed 4.5 bar. When idling at warm engine the oil pressure must not be below 1 bar.
- 3. Immediately after start the oil pressure warning lamp goes out. During normal operation the lamp should stay off. 4. Make sure that the charging control lamp goes out after the engine has started.
- Check the cooling water temperature frequently. The temperature should be in the area of 70 95°C when engine is 5. warm.

Manoeuvering

- 1. With the control lever in central position the engine is idling, and the marine gear is in neutral (pos. 0). When the lever is moved forward in range 1, the marine gear is engaged to "Ahead" first, and then in range 2 the engine R.P.M. is increased. When the lever is moved from the central position to range 3, the marine gear is engaged to "Astern" first, and then in range 4 the engine R.P.M. is increased.
- 2. Only engage "Ahead" or "Astern" when the engine is idling.
- To accelerate engine without engaging gear, operate gear release 3 button 5 and move control handle in either direction.
- 4. Increase the load gradually from idling in the course of the first 15-20 minutes shortly after the start of the engine.

Stopping the engine

- 1. Reduce the load gradually in the course of 15-20 minutes before stop.
- 2. Reduce the engine to idling and put the gear in neutral position.
- Push the "Stop" button (or pull the mechanical stop handle) until engine stops. 3.
- 4. Move the "Off/Run" switch to the "Off" position.
- 5. Turn off the battery main switch.

Running in

To secure long life and maximum power it is recommended to run the engine for the first 25 hours at not more than 80 pct. of the maximum output (about 3200 r.p.m.)

You should avoid slow hauling as for instance towage. After the first 25 hours it is recommended to change engine and gear oil and to tighten up the cylinder head and to check or to possibly adjust the tension of the V-belt. Besides, it is recommended to let an authorized service dealer go over engine and installation.

MAINTENANCE

Belt for alternator

To be adjusted every 150 hours by turning the alternator round the centres of suspension. Tensioning should be so as to allow 8 - 10 mm deflection of the belt under firm thumb pressure.

Air inlet filter

This is a wire gauze filter to be rinsed in petrol and cleaned by a blast of compressed air after 300 hours' operating.

Fuel filter

A fuel filter is fitted between the fuel lift pump and the H.P. fuel pump. The filter is a disposable one which cannot be cleaned. It should be changed every 300 operating hours or if water contamination is suspected.

Change the filter as follows:

- 1. Drain off the fuel from the filter by slackening drain screw A in the bottom of the filter casing B.
- Remove by hand or by means of a pair of tongs the filter casing and discard 2.
- Clean the sealing surface of the filter holder C if necessary 3
- Fill the new filter casing with clean fuel through the holes at the top of same. 4 Screw on the filter casing and tighten it by hand about half a turn after the 5.
- gasket fits tightly. 6. After changing the filter, bleed the fuel system as stated under "Preparation for first start"







Fuel lift pump

The fuel lift pump is a sealed type which cannot be dismantled for repair or cleaning. It is recommended to install a water/dirt accumulating filter in the suction line to the pump. After repairs the fuel system must be bled as described under "Preparation for the first start" if necessary.

Lubricating Oil System

The engine is pressure lubricated and the oil system has a built-in relief valve for controlling the oil pressure. The oil level is checked as mentioned before.

Change of Oil

Lubricating oil should be changed for the first time after 25 hours of running, later for every 150 hours or at least once a year. It is recommended to change the oil when engine is warm, and the procedure is as follows:

- 1. Remove the dipstick.
- 2. Insert the sump pump suction hose into the hole and pump up the oil.
- 3. When the sump is empty reinsert dipstick and pour fresh oil.
- 4. If possible, drain the oil through the plug hole at the bottom of the sump.

Recommended Lubricating Oil

Modern diesel engines demand heavy-duty oils with additives securing best operation conditions and longest life time of the engine under various conditions. Therefore use a first class HD-oil from a recognized oil company. Oil specifications as mentioned in "LUBRICATION OIL CHART".

When operating under difficult conditions, i.e. frequent cold starting, short operation periods, greatly varying loads, use quality "Service CD" and also use quality "Service CD" in case the sulphur content of fuel is higher than 1 %.

Change of Lubricating Oil Filter

Lubricating oil filter cannot be cleaned, but should be changed every 150 hours or once a year. To change the filter proceed as follows :

- 1. Unscrew filter A and discard it.
- 2. Clean the sealing surface of the engine B, and remove old gasket C if any from old filter
- 3. Mount new filter at once under clean conditions.
- 4. Screw on filter until gasket fits tightly, tighten a further half turn.
- 5. Fill with oil until normal level is reached.
- 6. Start the engine and check that the filter is tight.

Cooling system (Keel cooling)

A pump circulates the freshwater in a closed system. This circulation pump is fitted on the front end of the engine. The freshwater circulates through the cooling jackets of the engine and through the keel cooler, fitted on the bottom of the boat. Too high cooling temperature will cause the blue lamp in the control panel to light up and the acoustic alarm to function.

- 1. Cirkulating pump
- 2. Expansion tank
- 3. Thermostat 75°C
- 4. Pressure cap
- 5. Keel cooling pipe 2 x ø22/ø19 copper pipe





Frost precautions

As protection against corrosion and to secure the cooling water freezing temperature to min. minus 15° Celsius as per IMO/SOLAS requirement or lower if required from climate conditions, It is recommended to use a mixture of <u>min. 30%</u> <u>antifreeze liquid and 70% water</u> and <u>max. 50% antifreeze and 50% water</u>.

However <u>please also note when doing service on lifeboats</u> that the mix of water and antifreeze can get aggressive and start corrosion. If corrosion is found in the cooling system it can be caused by one of two conditions:

- 1. The anti corrosion additives in the anti freezing liquid are exhausted and have evaporated.
- 2. Oxidation due to incoming air causing an acid which is lowering the PH value.

Therefore and also to keep the anti freezing proporties it is recommended to **change the cooling water and antifreeze every** <u>**3 years min.**</u> Please also note the details provided by your supplier of antifreeze liquid normally stated on the can.

Electrical System

The engine is equipped with a 12 volt electrical system consisting of a starter motor and an alternator, the max. charging current of which is 50 Amp.

Electrical wiring diagram for the engine with control and instrument panels is shown later in this instruction.

The battery must never be isolated from the alternator, when the engine is running. Warning! It is not allowed to connect additional equipment to the wiring system on the engine. Possible additional equipment has to be connected directly to the terminals of the battery.

NOTE!

The starter must not be operated for more than 10 sec. If further operation is necessary a pause of at least half a minute before starting attempt is repeated.

Marine Gear

The engine is equipped with a reverse-reduction gear. The reduction is 2.94:1 for AHEAD and 1.95:1 for REVERSE. The marine gear will need no other attendance than regular change of oil. This to be carried out after 25 hours of operation, and then every 250 hours or once a year. Oil quality: "Automatic Transmission Fluid" (ATF).. The oil change is carried out by means of the lubricating oil bilge pump. The oil should be warm when draining. Refill new oil to the quantity of 0.5 liters through the dipstick hole. Check oil level on the dipstick.





Starting instructions for BUKH Diesel Engine type DV29RME

Electric start:

- 1. Switch on the main switch.
- 2. Put the gear in neutral position
- 3. Put the switch into "RUN" position
- 4. Push the "START" button until the engine starts

Cold Start (below minus 15°C if mounted): Start pilot: Pull and push the pump (2) 2-3 times.

Stopping the engine: Push the "STOP" button until the engine stops.

After the engine has stopped: Put the switch in "OFF" position.

Filling the pressure tank (3) (if mounted):

- 1. Open the cover.
- 2. Put the gas cylinder on top of the valve and fill up the tank to max. marking.

Hand Start: (If mounted): Put gear into neutral position. Put handle into crank claw. Lift decompression lever (1).

Cold start with hand start (below 0° C). Start pilot: Pos 1 – 2 - 3 Pull and push the pump (2) 2-3 times.

Turn the start handle as quickly as possible (clockwise), release the decompression lever, but keep on turning until the engine starts.



WINTER STORAGE OF THE ENGINE

1. Carry out the following whilst the boat is still in the water:

- 1. Run the engine until normal working temperature is reached.
- 2. Drain off engine and gear oil with the oil bilge pump.
- 3. Fill the engine and gearbox with preservative lubricating oil of a recognized make up to the upper mark on the dipstick.
- 4. Fill the fuel tank with fuel preservative oil in the rate of mixture prescribed by the oil manufacturer.
- 5. Start the engine and let it run for about 10 minutes to be sure that the fuel mixed with preservative oil has been flushed through the fuel system of the engine.
- 6. Fill the fuel tank completely with fuel. Pay no special attention to the preservative oil previously added to the fuel as this is consumed normally and properly when service is resumed in spring.

2. On land the following procedure has to be carried out:

- 1. Remove the engine cooling water drain plugs, drain off the sea water from the engine and refit plugs.
- 2. For direct sea water cooled engines: Remove the suction hose from the cooling water pump at the bottom cock and put the hose into a bucket with freshwater containing preservative oil in the rate of mixture prescribed by the oil manufacturer
- 3. The outlet hose for the cooling water which goes into the exhaust elbow may be removed and returned to the bucket via a length of hose so that the freshwater is able to circulate. Start the engine and the freshwater containing preservative oil will be flushed through the engine.
- 4. Stop the engine after 5 10 minutes and drain off the water. Ensure that after removing the drain plug (1 plug is placed in the block, see page 3, pos. 17; and 1 plug in the exhaust manifold) all the water is drained off. This is done by cleaning the drain holes with a nail, a steel wire or the like, so that any remaining water may drain out. Remove the impeller from the cooling water pump, which will allow water in pump and pipes to be drained off. Keep the impeller separately in a dry place during the winter.
- 4A. For freshwater-cooled engines: Drain the freshwater from the engine by removing the plugs as indicated for seawater cooled engines. It is not necessary to flush this system with freshwater containing preservative oil. If the engine is to be used in period of frost, it must be protected against frost burst with a mixture of anti-freeze solution in the freshwater system irrespective of the protection to the freshwater system against the risk of frost by removing the cover of the impeller pump and turning the engine manually or with the starter motor.
- 5. Remove the battery and store it separately during the winter in a dry and frost-free place. Fill up and charge the battery before storing.
- 6. Remove the air filter and turn the engine manually until each inlet valve opens alternately, during which about 50 mL of preservative oil is injected into each piston head. Turn the engine backwards and forwards manually in order to spread the preservative oil.
- 7. Insert a clean, oil moistened rag (not cotton waste) into the inlet manifold.
- 8. Insert another clean, oil moisted rag into the exhaust elbow aperture.
- 9. Treat electrical connections with grease free from acid. Fill the multiple plugs with grease from the wire side.

The engine is now preserved for winter storage and can be further protected by covering of polythen sheeting, under which a bucket of silicagel should be placed.

3. Preparation of engine before launching.

- 1. Remove the oil moisted rags from the inlet manifold and the aperture of the exhaust elbow.
- 2. Fit the cooling water pump impeller.
- 3. Fit cooling water drain plugs.
- 4. Drain the preservative lubricating oil from both engine and gearbox and fill up with fresh oil to the upper mark of the dipstick.
- 5. Change the lubricating oil filter.
- 6. Make sure before starting up that the oil on the piston heads is drained off. This is checked by turning the engine manually without operating the decompression lever.
- 7. Examine the stern tube stuffing box and fill up with stern tube oil.
- 8. Fit the battery after re-charging.
- 9. Lubricate all moveable parts with oil.
- 10. Check the anode.
- 11. Check that there is electrical contact at the sterntube at the internal connection to the gearbox.

RME-ENGINES MOUNTED WITH HYDRO- OR SPRING STARTER EQUIPMENT

The above mentioned type of starting method has proved to start the lifeboat engines in a very short period of time. In cold climates a standard multigrade lubrication oil may not be sufficient for a rapid build-up of lub. oil pressure. We recommend the following methods to prevent problems:

1. Full synthetic low friction lub. oil with a viscosity of 5W/40 or 10W/30 (e.g. Mobil No. 1 or Castrol Syntruck).

2. Cooling water jacket heater.

3. Oil sump heater.

In view of starting time the above points also increase the electrical start performance.

LUBRICATION OIL QUANTITIES FOR DV29RME

When the engine is dry, you are recommended to fill up with 3.5 litres of lubricating oil (min. 3.1 litres - max. 3.9 litres). A dip stick with standard indications of minimum (20 mm) and maximum (32 mm) oil levels for checking of the oil quantity is located on the side of the engine.

THESE INDICATIONS APPLY WHEN THE ENGINE IS IN HORIZONTAL POSITION!

When mounted in a lifeboat, the engine is rarely in a horizontal position. Usually, it has an aft inclination of max. 12°, which will change the oil level on the dip stick.

The following values are intended as a guide:

Oil level when 3.5 litres of oil have been added to the engine:

Horizontal engine:	Oil level on dipstick= 26 mm
Engine inclination 12° aft:	Oil level on dipstick= 18 mm
Engine inclination 30° forward:	Oil level on dipstick= 9 mm

Irrespective of the inclination, engine running will be trouble free if the above oil quantity has been added. If more oil than advised is added, the crank will be running submerged in oil. Consequently, the oil will get too warm and foam, and bleeding will be inadequate.

Oil vapour will condense and in extreme cases run out of the suction filter.

Do <u>NOT</u> fill the engine with more oil than indicated above.

It will not be necessary to adjust the oil quantity of freefall boats, in which the engine will be started while the boat is still in the chute at an inclination of approx 30°.

INSTRUCTION FOR MARINE DIESEL FUEL IN COLD CLIMATES COLD FILTER PLUGGING POINT (CFPP)

(service info 0502)

To ensure proper operation of the lifeboat engines in very cold climates, it is essential to ensure that the diesel fuel in the fuel tank of the lifeboat is suitable to the lowest temperature possible in the area of operation of the ship.

The temperature where the fuel is no more filterable is called "CFPP" in the specifications for the particular fuel. To improve the CFPP-point, a dilution with kerosene is recommended. A max. dilution of 40% kerosene is possible. If 50% or more are necessary, 2-stroke lubricating oil must be added to protect the fuel injection pump and nozzles from seizure. If no information is available onboard the ship about the particular fuel to be diluted, it is recommended to use 2-stroke lubricating oil in ratio 0.3 ltrs. to 100 ltrs. of fuel. This is necessary due to the fact that the diesel oil might be winter-type and already diluted from the oil company.

The reason for the necessity of 2-stroke lub. oil is that it is self-mixing with the fuel.

Note: In ship storage tanks a max. of 25% dilution is the limit, in order to ensure that min. flame point of fuel = 55° C. For operation below -28°C use specific Arctic fuel.

o o use specific Arctic fuel.

EXAMPLE:

Diesel Oil without Dilution	CFPP/-18°C
	0000
90 litres diesel + 10 litres kerosene	-20°C
80 litres diesel + 20 litres kerosene	-22°C
70 litres diesel + 30 litres kerosene	-24°C
60 litres diesel + 40 litres kerosene	-26°C
50 litres diesel + 50 litres kerosene	-28°C
Specific Arctic fuel	-40°C

(service info 9201)

(service info 9702)

Lubricating oil for spray pump bearing housir

Checking of oil level:

Dismount the filling plug when the spray pump is

a horizontal position. The oil level must be just above the lower edge the shaft. When turning the pump shaft must ca a little oil round.

Change the oil after 300 operating hours or every years.



OPERATING MANUAL FOR BUKH DV29RME LIFEBOAT ENGINES

MAIN DATA		
		DV29RME
WORKING PRINCIPLE NUMBER OF CYLINDERS		
CYLINDER BORE/STROKE		
SWEPT VOLUME		
COMPRESSION RATIO		
COMPRESSION PRESSURE		
	G at 2000 rpm	
ACCORDING TO ISO 3046		
MAX. TORQUE		
MAX. AIR CONSUMPTION		1784 Litres/min
ENGINE ROTATING, LOOKING		
	·······	
MAX INCLINATION, FORE AND HEEL, MAX. CONTINOUS	7 AF T	
ENGINE NET WEIGHT		
LOCATION OF ENGINE SERIA		
EXHAUST TEMP. MAX/NORMA	∖∟	600°C – 580°C
VALVE TIMING AND INJECTIO		
FLYWHEEL DIAMETER		
INLET VALVE OPENS	BEFORE TDC	
VALVE CLEARANCES (COLD E		
·		
		DIRECT INJECTION
INJECTION PRESSURE		AUTOMATIC VARIABLE
STATIC PRESSURE OF FUEL I		
FUEL FILTER		THROW AWAY FILTER INSERT
FUEL QUALITY GAS OIL		BS 2869 CLASS A
LUBRICATING SYSTEM		
		ROTARY VANE PUMP
LUBRICATING OIL PRESSURE	: WARM ENGINE/MINIMUM	2-4.5 Bar / 1 Bar
LUBRICATING OIL PRESSURE	: WARM ENGINE/MINIMUM	2-4.5 Bar / 1 Bar SERVICE CC or CD
LUBRICATING OIL PRESSURE	: WARM ENGINE/MINIMUM BELOW +5°C	2-4.5 Bar / 1 Bar SERVICE CC or CD SAE 10 or SAE 10W-30
LUBRICATING OIL PRESSURE	: WARM ENGINE/MINIMUM BELOW +5°C BETWEEN +5°c and +25°C	2-4.5 Bar / 1 Bar SERVICE CC or CD SAE 10 or SAE 10W-30 SAE 20 or SAE 15W-40
LUBRICATING OIL PRESSURE	: WARM ENGINE/MINIMUM BELOW +5°C BETWEEN +5°c and +25°C ABOVE +25°C	
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RECOMMENDED MAINTENANCE AND CHECK LIST FOR BUKH LIFEBOAT ENGINES

		CHECK	RECTIFY IF	1			
			NEEDED				1
1.	Tightness of connections through hull:			W E E K L Y	M O N T H L Y	Y E A R L Y	EVERY 5 YEARS
1.1	stern tube	hull connection	change sealing			Х	
	keel-cooling pipes	hull connection	change sealing			X	
	spray pump	hull connection	change sealing			Х	
•							
2.	Check of lubricating oil:	ahanga ail	-			х	х
	engine engine	change oil check oil level	-	x		^	^
	gearbox	change oil	-	^		х	
	gearbox	check oil level	-	х		~	
	sealbox for spraypump	refill the oillevel	renew if leaking-		х		
	lubricating oil filter	change	-			Х	
2	Check of cooling watersystem:						
	system	system to be full	fill up	х			
	anti freeze liquid	check for minus 25°C.	refill anti freeze liquid			х	
3.3	cooling water connections tightness	for leaks	renew if leaking		Х		
	condition of rubber hoses	cracks and leaks	renew				Х
3.5 .	retightened clamping bands	-	-				
3.6	V-belt for cooling water pump	adjust or renew	-		Х		
3.7.	thermostat	renew after 5 years	-				Х
4	Check of fuel system:						
	supply line	clean water/fuel separator and check line bends	repair if damaged or renew				x
4.2.	fuel tank	drain for water	-			Х	
4.3	fuel filter	change	-			Х	
4.4	return line	check for bends & damages	repair if damaged or renew				X
5.	Check of remote control cables:						
5.1	cables	check easy operation and stroke sufficient	adjust cables				X
	Check of propeller shaft arrangement:						
6.1	rear stern tube bearing	check clearance for bearing insert	renew insert				X
6.2			clean holes				Х
0.2	sufficient water flow to rear stern tube bearing	check that water holes in bearing housing are not blocked					
6.3	alignment of gear flange and prop.shaft flange	in bearing housing are not blocked alignment to be within 0.05- 0.01mm	realign the engine				x
6.3 6.4	alignment of gear flange and prop.shaft flange stuffing box seals	in bearing housing are not blocked alignment to be within 0.05- 0.01mm tightness	realign the engine renew all three seals				x
6.3 6.4 6.5	alignment of gear flange and prop.shaft flange stuffing box seals condition of rubber tube for stuffing box	in bearing housing are not blocked alignment to be within 0.05- 0.01mm tightness cracks	realign the engine renew all three seals renew				
6.3 6.4	alignment of gear flange and prop.shaft flange stuffing box seals	in bearing housing are not blocked alignment to be within 0.05- 0.01mm tightness	realign the engine renew all three seals		X		x
6.3 6.4 6.5 6.6 6.7 7.	alignment of gear flange and prop.shaft flange stuffing box seals condition of rubber tube for stuffing box Out-Board gearoil.	in bearing housing are not blocked alignment to be within 0.05- 0.01mm tightness cracks oillevel check size and condition	realign the engine renew all three seals renew refill renew if damaged		x		X X
6.3 6.4 6.5 6.6 6.7 7.	alignment of gear flange and prop.shaft flange stuffing box seals condition of rubber tube for stuffing box Out-Board gearoil. propeller Starting of the engine: start with <i>electrical start</i>	in bearing housing are not blocked alignment to be within 0.05- 0.01mm tightness cracks oillevel check size and	realign the engine renew all three seals renew refill	x			X X
6.3 6.4 6.5 6.6 6.7 7.	alignment of gear flange and prop.shaft flange stuffing box seals condition of rubber tube for stuffing box Out-Board gearoil. propeller Starting of the engine:	in bearing housing are not blocked alignment to be within 0.05- 0.01mm tightness cracks oillevel check size and condition engine start within	realign the engine renew all three seals renew refill renew if damaged if malfunctions -the engine must be ser-	x	x		X X

RECOMMENDED MAINTENANCE AND CHECK LIST FOR BUKH LIFEBOAT ENGINES

		CHECK	RECTIFY IF NEEDED	1	1	1	1
				W E E K L Y	M O N T H L Y	Y E A R L Y	EVERY 5 YEARS
8.	Engine maintenance						
8.1	valve clearance	clearance	adjust			Х	
8.2	electric starter	rust protection of starter drive	spray rust protection spray			х	
9.	Running with engine - check:						
9.1	Idling speed to be 900-1200 RPM	900-1200 RPM	adjust RPM	Х			
9.2	Full speed unload / min. 3700 RPM	min. 3700 RPM	adjust RPM	Х			
9.3	Full speed loaded with propeller	3300-3600 RPM	adjust RPM			Х	
9.4	Full speed loaded with propeller and spray pump	2800-3600 RPM	adjust RPM			Х	
9.5	Cooling water temp. to be max. 95 degr. Celcius	max. 95°C	change termostat		Х		
9.6	Audible and visual alarms	check function	change senders, lamps or switch			х	
9.7	Lubricating oil pressure	min. 1.5 kg/cm ² at idling speed	adjust oil relief valve				X
9.8	Gearbox change from FW to Neutral to ASTERN	check cables	adjust	Х			
10.	Air supply:						
10.1	air inlet filter	renew	-				Х
11.	Bateries:						
11.1	level of liquid	check, refill	renew	Х	Х	Х	Х
11.2	voltage conditon	charge	renew		Х		
12.	Spray pump - check:						
12.1	waterspray being sufficient .	waterspray- nozzles, waterintake and pump	clean nozzles and waterintake connection			х	
12.2	rubber hoses	cracks	renew			Х	1
12.3	clamping bands	retightened				Х	

IRREGULAR OPERATION - CAUSES AND REMEDIES

1. Engine does not start

SYMPTOM	CAUSE	REMEDY
Insufficient or very little compression	Inlet and/or exhaust valves leaking	Grind or replace the valves, mill the seats
	Inlet and/or exhaust valves sticking	Grease valve stems with 2/3 gas oil and 1/3 lub. Oil. If necessary clean the valves.
	Insufficient rocker arm clearance	Adjust to 0.25 mm inlet and 0.3 mm exhaust when engine is cold (turn left)
	Piston rings stuck in grooves or are worn	Replace piston rings
	Valve springs broken or are weak	Replace springs
Insufficient or no pressure from fuel pump	Air in fuel system or nozzles sticking	Bleed or renew nozzles
Thermo start out of order	No fuel (valve leaking)	Fill up (renew thermo-start)
		Check and/or replace switch and connections.
	Electric supply out of order	Chech fuse
Engine does not reach normal revs	Unloaded battery or defective	Battery to be charged or renewed
Starter motor turns engine too slowly	Loose or corroded connections	Tighten or clean connections

2. The engine starts, but stops soon after

The engine starts, but stops soon after	Empty fuel tank	Refill and bleed
	Air in fuel system	Bleed
	Nozzle sticking	Replace nozzle
	Fuel filter choked	Replace filter element. Clean the tank

3. The engine does not reach maximum output

Difficult to start	None or insufficient compression	See "engine does not start"
The engine revs. Is reduced considerably	Fuel supply choked up.	
when loaded	Air/water in fuel system	Check fuel system thoroughly
	Governor incorrectly adjusted or something	Adjust the governor. Check governor system and
	in the system works sluggishly	correct the error
Hot engine(smell of heat)	Insufficient cooling water supply	Stop engine. Check cooling water pump
	Damaged cylinder liner or bearings	Check bearings, piston and cylinder, if
		necessary replace them

4. The engine knocks

The engine runs unevenly	Air/water in fuel system	Bleed see "engine does not start"
The origine rane aneverity	/ un/ mater in ruer eyetein	Bioda deci origine dece not etalt

5. The engine smokes

Black smoke	Air inlet filter choked	Clean filter
	Insufficient compression	See "engine does not start"
Blue smoke	The lube oil passes piston and oil rings an penetrates into combustion chamber, or vacuum valve defective	Replace oil rings and possibly the piston rings. Clean vacuum valve
Grey smoke	Thermostart valve is leaking	Replace

6. Excessive consumption of lubricating oil

Blue smoke	Oil- and piston rings are worn	Replace oil- and piston rings, if required			
	Piston and cylinder liner highly worn	Replace			
	Defective vacuum valve	Replace			
Lub. oil leaks out of crankshaft bearings	Worn oil seal ring	Replace			

7. The engine gets too warm or too cold

Cooling water temperature too high	Unsufficient cooling water supply caused	Investigate pump rotor for broken wings or lost
(smell of heat)	by:defective water pump, choked strainer or	driver screw. Clean strainer. Clean or replace
	a defective thermostat	thermostat
Cooling water temperature too low	Defective thermostat	Clean or replace thermostat

8. Insufficient or no lubrication oil pressure

Oil warning lamp lights up. Oil pressure	Insufficient lube oil in the engine	Check and refill				
gauge indicates abnormally low oil						
pressure						
	Leakage in lube oil system	Tighten and refill				
	Relief valve sticking or spring too weak	Clean bore and valve, stretch or replace the				
		spring				

LUBRICATING OIL CHART

			engi tem	p ran	•	for	Auxi	
OIL COMPANY	OIL TYPE	HD OIL GRADE & QUALITY	Below – 15°C	Below 5°C	5°C – 25°C	Above 25°C	M60 gear box (ATF)	Stern tube (flexible)
	1/1000 5000		v					
BP OIL BP OIL	VISCO 5000 Vanellus C4 Global	SAE 5W-40 API SJ/CF SAE 15W-40 API CF-4/CF/SG	X	v	v	v		
				X	X	X		
BP OIL	Vanellus C3 Extra	API CF4/CE/SF		Χ	Χ	Х		v
BP OIL	Outboard Gear Oil Universal		-					X
BP OIL BP OIL	Energol GR-XP 150	DIN 51 517 del. 3	-					X X
	Energol GR-XP 220	DIN 51 517 del. 3	v					•
CALTEX	Havoline Fully Synthetic	SAE 5W-40 API SJ/CE	X	v	v	v		
CALTEX	Delo 350 Multigrade	SAE 15W-40 API CF4/CJ		X	Χ	Х		v
CALTEX	Outboard Gear Oil EP	SAE 90	v					Х
CASTROL OIL	CASTROL Syntruck	SAE 5W-40 API CF	X	v	v	v		
CASTROL OIL	CASTROL RX Super Plus	SAE 15W-40 API CH-4		Х	Х	Х		v
CASTROL OIL	CASTROL Marine Gear Oil	SAE 90						Х
CHEVRON	DELO 400 Synthetic	SAE 10W-30 API CD/SG + SF	X					
CHEVRON	RPM HEAVY DUTY	SAE 15W-40 API CD - II	_	Х	Х	Х		
CHEVRON	GEAR COMPOUND EP 220	ISO VG 220						Χ
ELF	Elf Synthése 5W/40	SAE 5W-40 CD or CC	Х					
ELF	Performance 3D 15W-40	SAE 15W-40 CD or CC	_			Х		
ELF	Performance 3D 10W-30	SAE 10W-30 CD or CC		Х	Х			
ELF	Outboard Gear Oil	SAE 85W-90						Х
EXXON / ESSO	EXXMAR CM	SAE 15W-40	Χ	Χ	Х	Х		
EXXON / ESSO	ESSOLUBE XT301	SAE 15W-40 API CG-4	Х	Х	Х	Х		
EXXON / ESSO	ESSOLUBE XT301	SAE 15W-40 API CG-4 FZG11						
EXXON / ESSO	SPARTAN EP220	ISO VG 220						Х
EXXON / ESSO	GEAROIL GX	SAE 80W-90						Х
MOBIL OIL	MOBIL 1 0W-40	SAE 0W-40 API SJ/CF/EC	Х	Χ	Х	Х		
MOBIL OIL	MOBIL Delvac 1 SHC	SAE 5W-40 API CE/CD	Х	Х	Х	Х		
MOBIL OIL	MOBILGARD 1 SHC	API CD/CF/CF2	X	Χ	Х	Х		
MOBIL OIL	MOBILGARD HSD	15W-40 API CG-4/CF-4/CF/SH		Χ	Х	Х		
MOBIL OIL	MOBIL Stern Tube Lubricant	Outboard Gear Oil SAE 80-90						Х
NIPPON OIL COMPANY	HIDIESEL S-3 SAVE	SAE 15W-40 CD	Х	Χ	Х	Х		
NIPPON OIL COMPANY	HIDIESEL S-3 SAVE	SAE 10W-30 CD		Χ	Х	Х		
NIPPON OIL COMPANY	GEAR LUBE EHD	SAE 90						Х
SHELL OIL	Helix Ultra	SAE 5W-40	Х					
SHELL OIL	Rimula X	SAE 10W-30		Х				
SHELL OIL	Rimula X	SAE 15W-40			Х	Х		
SHELL OIL	Nautilus Marine Gear Oil	SAE 90						Х
SHELL OIL	Spirax GX	SAE 80W-90						Х
STATOIL	LazerWay 5W-40	SAE 5W-40 API SL/CF	Х					
STATOIL	PowerWay 15W-40	SAE 15W-40 API CF4/SJ		Х	Х	Х	1	
STATOIL	LoadWay EP 220	ISO VG 220						Х
STATOIL	GearWay G5	SAE 80W-90					1	X
TEXACO	Havoline Formula 3 Synthetic	SAE 5W-40 API SJ/CF	Х					
TEXACO	URSA Super LA	SAE 15W-40 API CG-4		Х	Х	Х		
TEXACO	GEARTEX EP-C	SAE 80W-90 API GL-5				<u> </u>	1	Х
TEXACO	MEROPA 220	ISO VG 220						X
	Dexron II or III						х	

DIRECTIONS FOR LUBRICATION

Designation	Application Point	Capacity Incl. Filter
Engine: DV29	Change first time after 25 h and every 150 h or once a year	3.5 Litres
Baysan M60 Marine Gear	Change first time after 25 h and every 250 h or once a year	0.5 Litres
Oil Filter	Change every 150 h or once a year	
Stern Tube (flexible)	Change every 3 years	
Spray Pump	Change after 300 h or every 2 years	70 mL





INSTALLATION: DV29



009M4710

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General Terms of Sale and Delivery

1. Introduction

The terms of sale and delivery specified below shall apply to all quotations, orders and consignments unless otherwise specified in any other written agreement.

2. Quotations

Quotations shall be subject to confirmation and the goods being unsold. Bukh A/S reserves the right to change unconfirmed quotations without notice. The prices stated are exclusive of value-added tax and other duties.

3. Orders

Any order shall be confirmed in writing by Bukh A/S in order that an agreement on consignments can be considered as binding.

The order will be delivered at a confirmed price subject to price increases resulting from changes in trade conditions, duties, rates of exchange, raw material supplies and similar conditions.

Cancellation will only be accepted as per arrangement and against payment of expenses incurred.

Illustrations, dimensioned sketches, as well as the contents of leaflets, catalogues, circular letters, etc are approximate and with no binding effect.

When carrying out the order, Bukh A/S reserves the right to make any changes which are deemed necessary from a technical point of view.

4. Terms of Delivery

Delivery will be "ex works" (Incoterms 2010), unless otherwise agreed.

Bukh A/S shall not be responsible for delays or obstacles due to force majeure, for example labour conflicts, fires, currency restrictions, shortage of labour and means of transport, general scarcity of goods, restrictions on power and flaws in consignments from subsuppliers or delay in such consignments, or any other conditions beyond the influence and control of Bukh A/S as well as delay caused by the customer not having supplied sufficient technical information punctually.

If the customer fails to observe the terms stipulated for payment of the purchase price, Bukh A/S shall be under no obligation to make delivery.

Bukh A/S shall not pay any damages for delays in delivery.

5. Packaging

Packaging is included in the price of the product and will not be taken back.

6. Payment

Payment for all consignments shall be made directly to Bukh A/S, Krusaa, Denmark.

The customer shall not be entitled to withhold payment because of any counterclaims.

If payment should be effected later than the stipulated settling date, interest shall be paid on overdue payments at the rate of 1.5 per cent per month or fraction of a month. Bukh A/S reserves the right to change the rate of interest.

Any consignment shall remain the property of Bukh A/S until payment has been made in full, and the customer must keep the consignment insured against fire and damage - in case of marine plant, against sea risk - at the total new value from the date of shipment from the factory and until full payment has been effected.

7. Remedying Defects

If the consignment should prove defective, Bukh A/S undertakes during the first 24 months after the consignment has been put into service, however, not beyond 30 months from the day the consignment is reported to be ready for shipment, in the case of spare parts, however, 3 months from shipment, to remedy defects which are due to faulty design, materials or workmanship. However, the obligation to remedy defects is conditional on the operating conditions contained or provided in the agreement being observed and the consignment being used and operated correctly. Defects which are due to 1) improper storage before or during installation, 2) insufficient maintenance, 3) incorrect installation by the customer, 4) changes of the consignment carried out without the written consent of Bukh A/S, 5) incorrect or inexpedient repairs made by the customer or others, 6) normal wear or deterioration, rust, corrosion, deposits caused by water, foreign matter in pipes or the use of unsuitable oils, shall not be covered by Bukh A/S's obligation to remedy defects.

Unless otherwise stipulated, all transport and mounting of defective, repaired and replaced equipment shall be at the customer's account and risk.

Parts of the consignment which are not manufactured by Bukh A/S will only be replaced to the extent that Bukh A/S is compensated for them by the subsupplier.

Bukh A/S' liability for defects is limited to the abovementioned obligation. Bukh A/S shall only pay damages if it is proved that the loss caused by the defect is due to gross negligence or intentional circumstances on the part of Bukh A/S. Bukh A/S shall in no circumstances be held liable for operation loss, loss of profits or any indirect damage.

8. Arbitration

Any disputes are to be settled according to Danish law by arbitration in Copenhagen according to the rules of the International Chamber of Commerce and in accordance with the Danish Act on Arbitration of 1972.