#### MAINTENANCE MANUAL

### 5.1) Maintenance Schedule

General note Perform the following mainten

Perform the following maintenance tasks at the intervals shown in the maintenance check list. See chapter 05-20-00 25 hr. check.

Legend: X = do the task

blank = no task required

NOTES: If the points 1-3 in order to continue with the maintenance

schedule.

If one of the points 1-3 not OK, the engine must be checked and repaired in accordance with the BRP-Power-

train instructions for continued airworthiness.

	lata		Observa	
Points of Inspection	Interval Operating hours		Chapter Reference	Signature
	as indicated	100 hr.		
1.) Visual inspec	ction of the engin	е		
General visual inspection of the engine for damage or abnormalities. Check cooling air duct and cooling fins of the cylinders for obstruction, cracks, wear and good condition. Take note of changes caused by temperature influence.	recommended 50 hr.	X	12-20-00 sec. 3)	
Visual inspection of the temperature sensor and the oil pressure sensor. Inspect for tight fit and good condition.		Х		
Inspect all coolant hoses for damage, including leakage, hardening from heat, porosity, loose connections and secure attachment. Verify routing is free of kinks and restrictions.		Х	12-20-00 sec. 9.1)	
Carry out visual inspection of leakage bore at the base of the water pump for signs of leakage.		Х	12-20-00 sec. 4)	
Inspect the expansion tank for damage and abnormalities. Check coolant level, replenish as necessary. Inspect radiator cap. Inspect protection rubber on expansion tank base for correct fit.		Х	12-20-00 sec. 9.1,9.4) 12-10-00 sec. 3.1)	
Inspect the overflow bottle for damage and abnormalities.  Verify coolant level, replenish as necessary. Inspect line from expansion tank to overflow bottle for damage, leakage and clear passage. Inspect venting bore in cap of overflow bottle for clear passage.		X	12-20-00 sec. 9.5) 12-10-00 sec. 3.1)	

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Points of Inspection	Interval Operating he	ours	Chapter Reference	Signature
	as indicated	100 hr.		
Inspect all oil lines for damage, leakage, hardening from heat, porosity, security of connections and attachments. Verify routing is free of kinks and restrictions.		X	12-20-00 sec. 4)	
Inspect all fuel lines for damage, leakage, hardening from heat, porosity, security connections and attachments. Verify routing is free of kinks and restrictions. In the case of steel fuel lines (912 F, 912 S and/or optional), also check for any cracks and/or scuffing marks.		Х	12-20-00 sec. 4)	
Inspect the wiring and its connections for secure fit, damage and signs of wear.		Х	12-20-00 sec. 13.1)	
Check the oil filter for damage, tightness and abnormal wear.			12-20-00 sec. 13.5)	
2.) Mag	netic plug	1		
Check the magnetic plug.		X	12-20-00 sec. 12)	
3.) Compre	ession check			
Check the compression by the differential pressure method.  Test pressure hPa (psi)  Pressure drop (% or fraction)  Cyl # 1 2 3 4  bar/psi	every 200 hr.		12-20-00 sec. 5)	
4.) Checking the	engine suspensi			
Inspect engine suspension and fasteners for secure fit, including damage from heat, deformation, cracks.		X	12-20-00 sec. 3.1)	
5.) Checking the	air intake syster			
Inspect suspension and fasteners for secure fit, including damage from heat, deformation, cracks.		X		

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Points of Inspection	Interval Operating hours		Chapter Reference	Signature
	as indicated	100 hr.		
6.) Engine	external parts			
Inspect screws and nuts of all external parts for tight fit. Inspect safety wiring, replace as necessary.		X		
7.) Engir	ne cleaning			
Engine cleaning		X	12-20-00 sec. 1)	
8.) Checkin	g the air filter			
Checking the air filter.		Х	12-20-00 sec. 2)	
9.) Checking	the carburetors			
Checking the idle speed.		X	12-20-00 sec.10.3.1)	
Checking the ventilation of the float chambers. Any trouble with the float chamber ventilation impairs engine and carburetor function and must therefore be avoided.  Check that the passage of the ventilation lines is free and that no kinks can arise.	200 hr.			
Check for free movement of the carburetor actuation (throttle lever and starting carburetor). Check that the bowden cable allows the full travel of the throttle lever from stop to stop.		X	12-20-00 sec. 10.6)	
Removal/assembly of the two carburetors for carburetor inspection.	every 200 hr.		Heavy MM 73-00-00 sec. 3)	
Check carburetor synchronization. Mechanical and pneumatic synchronization.		X	12-20-00 sec. 10.1) 10.2) 10.3)	
Check weight of floater.	every 200 hr. (or annual check)		12-20-00 sec. 10.4.1)	
10.) Inspecting carbure	etor sockets and	drip tray		
Inspect the carburetor sockets for damage and abnormalities, checking for cracks, wear and good condition.  Take note of changes caused by temperature influence.  (1 See SB-912-030 - latest edition.	every 200 hr. <sup>(1</sup>		Heavy MM 73-00-00 sec. 3.4.3)	
11.) Spark p	lug connectors	•		
Check that resistance spark plug connectors fit tightly on the spark plugs. Minimum pull-off force is 30 N (7 lb).	every 200 hr.			

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	as indicated	100 hr.		
12.) Sp	ark plugs	•		
Remove all spark plugs, check the heat range designation, clean, check electrode gap and adjust if necessary. Replace as required.		X	12-20-00 sec. 13.2)	
Replacing spark plugs.	every 200 hr.	X <sup>(1</sup>	12-20-00 sec. 13.2)	
<sup>(1</sup> use of leaded fuel more than 30% of operation.				
13.) Flushing th	ne cooling systen	n		
Flushing the cooling system where conventional coolants are used.	when replacing the coolant		12-20-00 sec. 9.3)	
14.) Checking the	propeller gear b	ох		
Check the friction torque in free rotation on gearboxes with overload clutch.  Actual friction torque Nm (in.lbs)		X	12-20-00 sec. 14.1)	
Gearboxes with overload clutch  (1 use of leaded fuel more than 30% of operation. Inspect overload clutch.	every 600 hr. <sup>(1</sup>		05-50-00 sec. 2) SB-912-033	
Checking the propeller gearbox with overload clutch. (2 only for engine type 912 S/ULS/ULSFR	every 1000 hr. <sup>(2</sup>		12-20-00 sec. 14.2)	
Checking the propeller gearbox without overload clutch.  (3 only for engine type 912 UL/ULS/ULSFR	every 600 hr. <sup>(3</sup>		12-20-00 sec. 14.2)	
15.) Oi	il change			
Drain oil from oil tank.	every 50 hr. <sup>(1</sup>	X	12-20-00 sec. 11.2)	
Check the oil tank and clean the oil tank if contaminated.	every 200 hr.	X <sup>(1</sup>	12-20-00 11.5)	
<sup>(1</sup> use of leaded fuel more than 30% of operation.				
Remove old oil filter from engine and install new oil filter.	every 50 hr. <sup>(1</sup>	Х	12-20-00 sec. 11.3)	
Cut old oil filter without producing any metal chips and inspect following components for wear and/or missing material	every 50 hr. <sup>(1</sup>	X	12-20-00 sec.11.4)	
Filter mat Findings:				

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Points of Inspection	Points of Inspection Interval Operating hours		Chapter Reference	Signature
	as indicated	100 hr.		
Filter cover Findings:				
Sealing lip (wear, cracks, missing material) Findings:				
Spring of bypass valve (small) Findings:				
Positioning spring (large) Findings:				
Refill oil tank with approx. 3 litres of oil. For oil quality, see Operators Manual and SI-912 -016, latest edition.	every 50 hr. <sup>(1</sup>	X	12-20-00 sec. 11.2)	
(1 use of leaded fuel more than 30% of operation		I		
16.) Oil I	evel check			
Verify oil level, replenish as necessary.		X	12-10-00 sec. 4.1)	
17.) Checking t	the V-belt tension			
On configurations with auxiliary generator, check the attachment and the V-belt tension.		X	12-20-00 sec. 6)	
40 ) Con a alle u aufa				
18.) Smooth perfor	rmance of the end	-	05 50 00	
Inspection of turning of the crankshaft. For all engines with crankcase up to S/N 27811 inclusive. torqueNm		X	05-50-00 sec. 3.13)	
NOTE: At engines with new crankecase S/N 06.0010 or higher only inspect in case of suspected hard movement.				
19.) Engi	ine test run	·		
Observe the safety instructions!				

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as indicated	100 hr.	12-20-00 sec. 8)	
	X		
		12-20-00 sec. 4)	
al note			
	X		
t according to reco	the	ehr. ations of the er	ngine manufac-
		X the	al note

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