Maintenance Schedule for D28 "Classic" Engines

3 The D28 "Classic" Engines

3.1 Identification of the Engines

The following maintenance schedule is only valid for the "D 28 Classic" engine series. Several typical engines of this series are pictured here to aid in identification.

R6-800



V8-900



V12-1550



Maintenance Schedule for D28 "Classic" Engines

3.2 Maintenance Schedule for the D28 "Classic" Engines

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NOTE!

The maintenance work is to be done after reaching the cited operating hours **or** once per year at the latest.

Those maintenance operations which have reached their deadlines first are to be performed.

3.2.1 Maintenance Work According to Operating Hours for D 28 "Classic" Engines

	Scope of maintenance operations							
	M1	M2	M3	M4	M			
20-60 or after commissioning	X	x	11					
200	х	Х	х					
400*	X	X	x	х	х			
600	X	Х	х					
800	X	X	x	Х	х			
1000	X	X	x					
1200	X	x	X	Х				
1400	×	х	×					
1600	X	х	х	Х	Х			
1800	X	X	×					
2000	X	X	Х	Х				
2200	X	X	x					
2400	Х	X	x	Х	х			
2600	X	X	X					
2800	Х	X	X	Х				
3000	X	Х	X					
3200	X	×	x	x	X			
3400	х	X	х					
3600	x	X	X	х				
3800	X	X	X					
4000	X	×	x	x	х			

^{*} Retighten cylinder head bolts, not for R-730, R-800

3.2.2 Maintenance Work According to Time Intervals

According to time intervals	Scope of maintenance operations							
	M1	M2	МЗ	M4	A1	A2		
Yearly	х	X	x_	X				
2 Years					x			
4 Years	1					х		



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3.2.3 Scope of Maintenance Work

M1 Check

- Outside of engine for oil and coolant leaks ¹⁾
- Coolant level
- Concentration of antifreeze/anticorrosion agent
- Engine oil level/transmission oil level 1)
- Operation of instruments 1)
- Coolant hoses for leaks
- Fuel lines for leaks
- · Belt tension, retighten if necessary
- · Condition of impeller
- Removable fasteners (screws/bolts, hose clamps, pipe connections) and retighten if necessary
- Alignment of the shaft system (abnormal vibrations are due to the settling properties of the elastic engine mounts)

Test Drive

 Engine speed test with boat fully loaded ²⁾

M2 Clean

- · Fuel prefilter
- · Drain water from fuel filter on engine
- Drain water from fuel pre-filter

M3 Change

- Change filter cartridges for fuel filter on engine ³⁾
- Change filter cartridges for fuel prefilter ³⁾

M4 Change

- Engine oil
- Engine oil filter cartridges
- Change filter cartridges for fuel filter on engine ⁴⁾
- Filter element for crankcase ventilation
- · Air filter

Read out

- Diagnostic system memory MMDS
- · System memory EDC and delete

Check

Compression test and high run-up test

M5 Check/set

Valve clearance

A1 Change

- Both valve covers on expansion tank
- · Filter element for crankcase ventilation

Clean

- Charge air cooler/charge air pipes/turbocharger
- · Heat exchanger (tube cluster)

A2 Change

- Coolant
- All hoses (e.g. fuel feed and fuel return, transmission oil cooler)
- 1) Daily visual inspection to be performed by the captain as part of the board routine
- 2) Fully loaded means: water tank and fuel tank are filled, all ship equipment including life boats are on board
- 3) Change out filters earlier if they have heavy fuel soiling or high water contents.
- 4) Change out filters earlier if they have heavy fuel soiling or high water contents.

The above mentioned maintenance operations M1 to M4 are to be performed when the corresponding number of operating hours has been reached or once per year by a MAN authorised workshop. A1 and A2, which occur every 2 or 4 years, must be done regardless of the number of current operating hours.