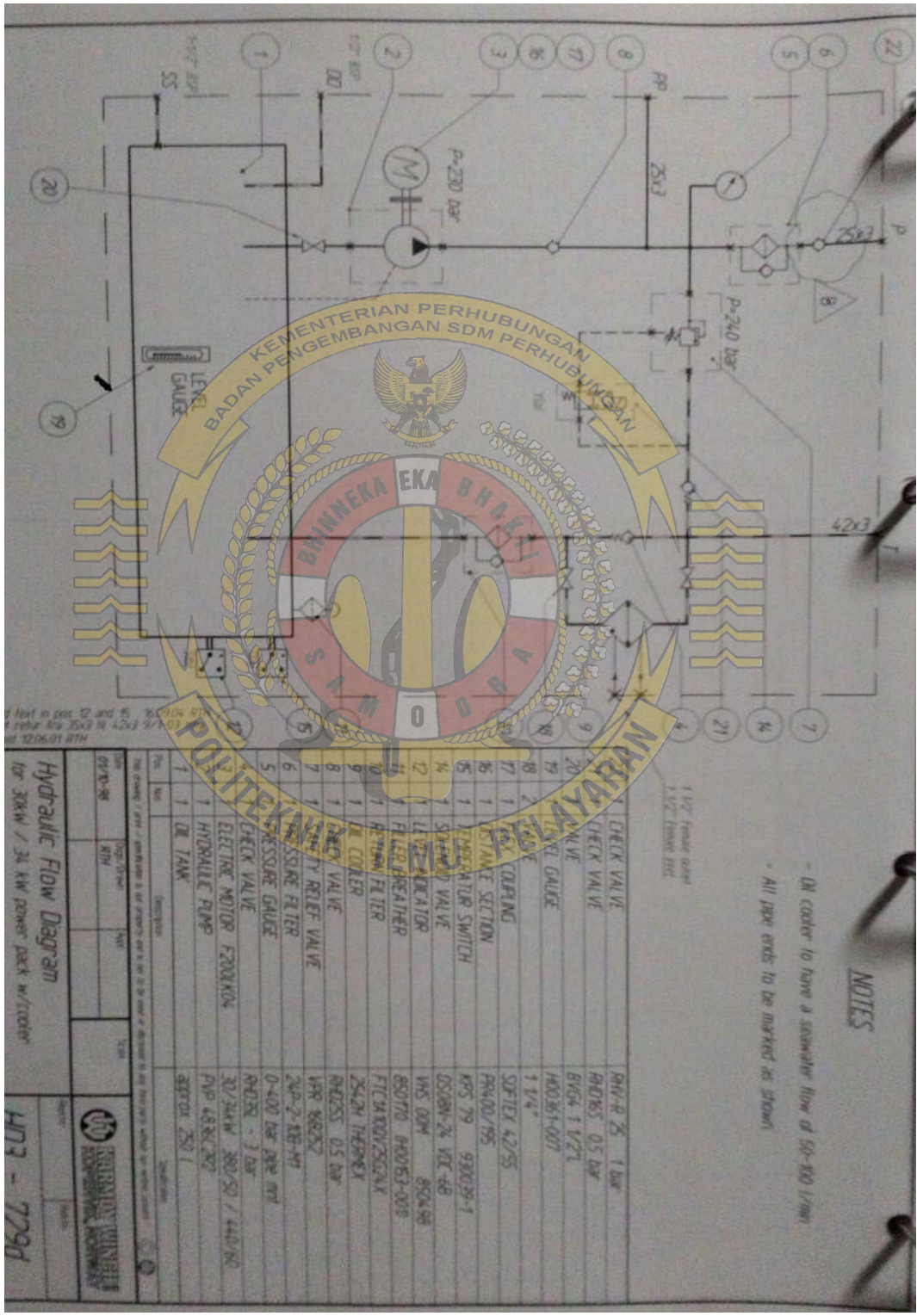


# LAMPIRAN



Hydraulic Flow Diagram  
for 30kW / 24 kW POWER PACK w/COOLER

MD3 - 729d

No.	Description	Quantity	Part Number
1	1 OIL TANK	1	33704 250 l
2	1 HYDRAULIC PUMP	1	30/24kW 800/50 / 440/60 PVP 4836/202
3	1 CHECK VALVE	1	84V/R 25 1bar
4	1 CHECK VALVE	1	84D/R 05 bar
5	1 PRESSURE GAUGE	1	84G 1 V2T
6	1 PRESSURE GAUGE	1	480361-007
7	1 COOLER	1	1 V4
8	1 RELIEF VALVE	1	SAFEX 42/55
9	1 FILTER	1	FR400/75
10	1 HEATER	1	805 79 98009-1
11	1 CHECK VALVE	1	0508N 26 VTC 48
12	1 LEAK DETECTOR	1	VMS 004 85048
13	1 FILTER	1	850710 840053-008
14	1 FILTER	1	FTL34R0V2525X
15	1 COOLER	1	2642H THERMEX
16	1 CHECK VALVE	1	84D/R 05 bar
17	1 RELIEF VALVE	1	VRP 86252
18	1 PRESSURE GAUGE	1	24D-2-805 M1
19	1 PRESSURE GAUGE	1	0-400 bar 200 mm red
20	1 CHECK VALVE	1	84D/R 05 bar
21	1 HYDRAULIC PUMP	1	30/24kW 800/50 / 440/60 PVP 4836/202
22	1 OIL TANK	1	33704 250 l

## NOTES

- Oil cooler to have a minimum flow of 50-80 l/min
- All pipe ends to be marked as shown

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Karm Fork Yearly Control



Check point	What to do	Result
Fork (stopper)	See Skjema Nr.77 and chapter 10 and 6.14 in user manual	
Towingpins	See Skjema Nr.77 and chapter 10 and 6.14 in user manual	
U-insert	Looking for wearing and cracks	
Hydraulic cylinders	Check for damage and leakage	
Connection points	Check all bolt connection at Fork and Towingpins	
Rotation Towingpins	Check all moveable parts for damage	
Towingpin roller	Check for wearing. Can the roller rotate?	
Hydraulic oil	Oil test. See chapter 5.2 in User manual	
Pipes and fittings	Check for corrosion and leakage	
Hydraulic hoses	Check for leakage	
Pressure filter	Change filter. See chapter 6.2 in User manual	
Drain filter	Change filter. See chapter 6.3 in User manual	
Hydraulic pump	Check for noise and leakage	
Electric connections	Check connections for damage	
Accumulator	Check nitrogen pressure. For pressure, see hydraulic diagram in User manual. Remember to drain oil before check	
Pump stop	Run the pump without any operations. Pump should stop after 15 min.	
Oil cooler	Check for inside corrosion	
Greasing	Grease up the Karm fork system. Over deck and under deck.	
Testing	Drive the system. Test all functions from both control panels	
Information; According to DNV and their reference to NMD's rules, the final acceptance of the Fork (shark jaw) is pending of successful test of release under dead ship condition with wire tension corresponding to 40% of the design SWL for the fork.		

Yearly control can be performed by the ship crew.  
 5 years control together with the classification society.

See User Manual for general information regarding maintenance

Date: \_\_\_\_\_

Sign.: \_\_\_\_\_