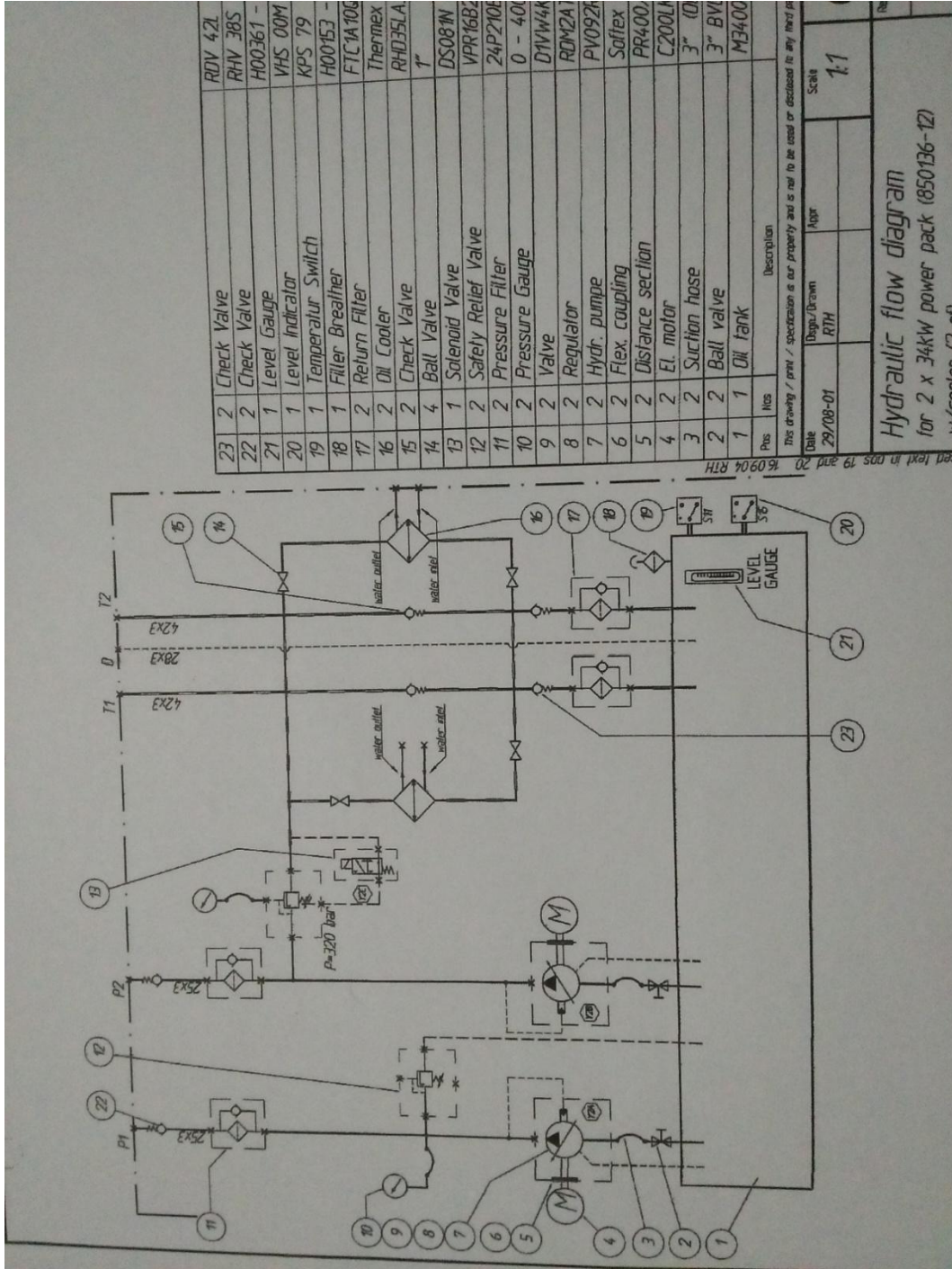


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Maintenance List

Part	To be checked	Work	Interval				
			Daily	Every month	Every 3 month	Every 6 month	Every 12 Month
Hydraulic pump	Leaks on the pump	Check if there is a leak in the hydraulic pump	0				
	Cleanliness on filters	Clean the filter from the dirt that was carried along with the oil		0			
	Oil cleanliness	Check the condition, do not let the oil used is not appropriate		0			
	screw	Tighten all the screw	0				
Towing winch	wire	Examination of material and structure stress, rust on each connection			0		
	Work drum	Check the lubrication of the winch bearing			0		
Hydraulic cooler	Cleanliness of pipeline cooler	Cleaning the pipes cooler by means of bribes					0

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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 connections 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 6.2 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.: _____