

15 **NEVER** interfere or touch the pump whilst in operation.

16 Keep clear of flexible hoses during start up, as they may jerk violently.

ELECTRICALLY DRIVEN PUMPS

17 Check the pump rotation by suspending the pump and operate the motor for one second only. **DO NOT** dry run the pump any longer than this as over heating of the motor will occur.

18 Check that all hose attachments are free from kinks or obstructions.

19 Suspended pumps are to be restrained to prevent possible violent or erratic movement that could cause damage to personnel, equipment or property.

20 Suspend the pump using the wire cable supplied. Make sure that the power cable is slack and does not carry the weight of the pump.

21 Watch the reaction of the casing during pump start up. An arrow on the motor casing indicates reaction direction. The reaction of the jerk is normally in an anti-clockwise direction.

22 Ensure that all cables are routed safely and are secured to prevent them from being drawn into the pump suction during operation.

23 The motor must be protected by an overload device and correctly fuse rated.

24 Pumps may be supplied with a flotation tank; this assembly is only intended to support the weight of the pump.

25 Under no circumstances should personnel attempt to stand on the flotation tank.

HYDRAULICALLY DRIVEN PUMPS

26 Before operating the hydraulic submersible pumps the operator must understand that hydraulic fluid creates very high pressures which can cause serious injury to personnel or damage to property.

27 Check that all hose attachments are free from kinks or obstructions.

28 Suspend the pump using the wire cable supplied. Make sure that the power cable is slack and does not carry the weight of the pump.

29 Watch the reaction of the casing during pump start up. An arrow on the motor casing indicates reaction direction. The reaction of the jerk is normally in an anti-clockwise direction.

30 Whenever necessary the pump should be placed on a platform to prevent it from sinking into the soft mud or silt.

31 Ensure that all hydraulic hoses are routed safely and are secured to prevent them from being drawn into the pump suction during operation.

- 32 Pumps may be supplied with a flotation tank; this assembly is only intended to support the weight of the pump.
- 33 Under no circumstances should personnel attempt to stand on the flotation tank.
- 34 Ensure that hoses cannot become cut accidentally.
- 35 **DO NOT** attempt to move, reposition or make adjustments to the pump whilst under hydraulic pressure. Isolate the supply and relieve the hydraulic pressure by means of venting.
- 36 Ensure that all hose connections are fitted correctly and that they are positively engaged.

DIESEL DRIVEN PUMPS

- 37 Ensure that the diesel unit is positioned on a firm and level surface to prevent instability due to vibration.
- 38 The operator should be fully conversant with the machine before attempting to start the engine.
- 39 **DO NOT** operate the unit in a confined space; be aware of the risk of asphyxiation from the exhaust gases.
- 40 **DO NOT** use in flammable atmospheres where there is danger of explosion, unless the engine has been specially adapted. Seek advice from the Hire Company.
- 41 When noise levels are uncomfortably high at 85-89 dB(A). it is advisable to wear hearing protectors.
- 42 At still higher noise levels, when it is necessary to shout to be heard, (at 90 dB(A) and above) hearing protectors must be worn.
- 43 **DO NOT** smoke when refuelling. **NEVER** refuel with the engine running.
- 44 Replace the fuel caps securely on the engine and fuel container. Wipe up any spillage immediately.
- 45 Fuel containers should be in good condition and leak proof.
- 46 **CHECK** that there is no combustible material on the exhaust system. The exhaust and silencer get very hot.
- 47 In the event of a leak of fuel or oil developing, switch the engine off immediately.
- 48 **CHECK** that all guards are secure. Never operate the equipment with missing or defective guards.



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