



APPROVAL OF SERVICE SUPPLIERS

Certificate No:
AOSS0000EKA
Revision No:
1

This is to certify that

Ashtead Technology Limited

Halifax, Canada

is granted acceptance for

Renewal survey examination of Mooring chain intended for Mobile Offshore Units , in accordance with Class Programme DNVGL-CP-0484.

This service supplier certificate will be accepted for use with all rule sets published by DNV.
See the following page(s) for details regarding application.

This Certificate is valid from **2021-05-25** to (inclusive) **2024-05-24**.

This Certificate is issued on **2021-11-11**.



for **DNV**

This document has been digitally signed and will therefore not have handwritten signatures

Kaptan, Murat
Surveyor

This Certificate may be withdrawn if:

1. The service provided has been improperly carried out or the results improperly reported.
2. The surveyor has found any deficiencies in the accepted operating systems of the service supplier.
3. The firm has failed to inform of any major changes having effect on the quality of the service rendered.
4. The conditions listed in the certificate are changed and/or are not fulfilled.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Application:

The conditions to which the certificate is based:

1. Requirements stated in DNV Approval Programme No. 413, October 2013, relevant parts for in-water surveys.
2. Company is assessed and approved to provide the following in-water surveys related to Mobile Offshore Units classed by the Society including:
 - a. Long term chain mooring systems
 - b. Long term wire I fibre rope mooring systems
 - c. Structures and equipment below water line
3. Typical for vessels such as:
 - a. Floating Production and Storage Offloading Units (FPSO)
 - b. Floating Storage Units (FSO)
 - c. Semi-submersible Units
 - d. Ship-shaped Units
 - e. Self elevating Units
4. This approval comprises of the following company services:
 - a. Chain Measurement (CMS) - Optical Caliper
 - b. 3D Modeling System (3DM)
 - c. Mechanical Subsea Caliper System
 - d. Riser/Rope Cleaning & Inspection System (RCIS)
 - e. Chain Angle Tool (CAT)
5. If any alteration to the service operation system is made, such alteration requires approval and DNV is to be immediately informed.