DNV·GL

Certificate No:
TAM000012J

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Reduction Gear for Auxiliary Purpose

with type designation(s)
SR-27-3, SR-27-4

Issued to
Power Engineering & Manufacturing, Ltd.
Waterloo, IA, USA

is found to comply with
DNV GL rules for classification – High speed and light craft
DNV GL rules for classification – Ships

Application :

Reduction gearbox for auxiliary purpose for LNG fuel pump drive

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

Issued at **Høvik** on **2019-08-30**
This Certificate is valid until **2024-08-29**.
DNV GL local station: **Long Beach**

for **DNV GL**

Approval Engineer: **Nadine Grace Mosteiro Halvorsen**

Oddvar Deinboll
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Job Id: **262.1-018118-2**
Certificate No: **TAM000012J**

Product description
2-step parallel shaft gear reducer

Application/Limitation
The gearbox has been type approved for:

Power:	150	kW
Input speed:	1176	rpm
Reduction ratio:	1:2,615	-
Application factor:	1,1	-

The type approval does not cover connection to external shafts.

Alarm and monitoring of the gearbox is not covered by this type approval and must be submitted for approval in each case.

Type Approval documentation

Marking of product
Identification: Manufacturers name or trademark
Type number identification

Periodical assessment
For retention of the type approval, a DNV GL surveyor shall perform an assessment after 2 years and after 3.5 years, to verify that the conditions of the type approval are complied with. A renewal assessment will be performed at renewal of the certificate.

In cases where the type approved product is manufactured at other companies, the periodical assessment shall verify that the type approval applicant has a quality control system for consistent production at their licensees/subcontractors. Furthermore, periodical assessment shall be carried out randomly at these companies.

-END OF CERTIFICATE-