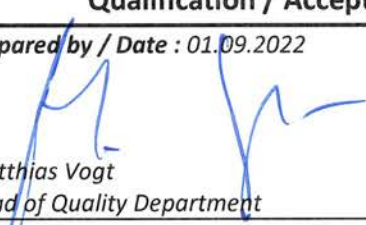
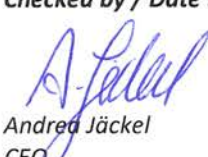

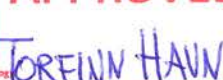

	QUALIFICATION TEST RECORD NORSOK M-650 EDITION 4 Manufacturer Procedure Conformity Report ISO 17782-2018				QTR No.: QTR 005 MPCR-No.: 005	
					Revision No.: 08	
Manufacturer Name / Address / Web Page:		Hammerschmiede Jäckel Essen GmbH Ripshorster Straße 460, D-45357, Essen, Germany www.hje.gmbh				
Reference Standard:		NORSOK M-650 Edition 4, ISO 17782-2018				
Material Designation and MDS No.:		ASTM A182 F51 (UNS S31803) - NORSOK M-630 MDS D44 Rev. 6 + MDS DH44 Rev. 1				
Manufacturing Summary Doc. No.:		QTR005-MS			Rev. No.: 02	
Products and Manufacturing Process(es):		Die Forged Flanges < 80kg Die Forged Flanges ≥ 80kg Forged Rings				
Mandatory Conditions and Sub-Contractors:		Heat Treatment carried out in-house (Furnace no. 5) Laboratory Material Testing carried out by 3 rd Party ISO 17025 Accredited Supplier				
Other Information:		Pickling & Passivation carried out by 3 rd Party Approved Supplier Forging Process for Large Items (≥ 80kg) : Ossenberg & Cie GmbH, Altena (Optional)				
Qualification Expiry Date:		29/09/2027				
Tested and Qualified Thickness and Weight						
Products and Manufacturing Process(es):	Test Record No.	Tested Thickness (mm)	Qualified Thickness (mm)	Test Piece Weight (kg)	Qualified Weight (kg)	
Die Forged Flanges (< 80kg)	QTR005-QUALTS01	84	93	72	144	
Die Forged Flanges (≥ 80kg)	QTR005-QUALTS02	120	120	190	380	
Die Forged Flanges (≥ 80kg) - Ossenberg)	QTR005-QUALTS03	170	170	400	All	
Forged Rings	QTR005-QUALTS04	200	200	363	All	
Qualification / Acceptance Signatures						
Manufacturer: Hammerschmiede Jäckel Essen GmbH Essen, Germany	Prepared by / Date : 01.09.2022  Matthias Vogt Head of Quality Department		Checked by / Date : 01.09.2022  Andrea Jäckel CEO			
Remarks / Special Remarks:						
1. The manufacturer and this QTR/MPCR are evaluated and found to be in conformance with the requirements of NORSOK M-650/ISO 17782 for supply of the above listed products and materials. 2. This acceptance does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the essential variables of NORSOK M-650/ISO 17782.						
Qualified / Accepted by (Company Name / Address):				Signature / Date :		
 APPROVED  TORFINN HAVN				 Torfinn Havn 29.09.2022		