


<b>aciéries hachette &amp; driout</b> 	<b>Qualification Test Record (QTR) NORSOK M-650</b>		QTR No.:004
			Rev. No.:3
<b>Manufacturer name/address/ Web page:</b>	ACIERIES HACHETTE ET DRIOUT 11 Avenue du général Sarrail, 52100 Saint-Dizier (France) www.ahd.fr		
<b>Reference standard</b>	NORSOK M650, Ed4		
<b>Material designation and MDS No.:</b>	A995 / A890 Grade4A MDS D46 rev5		
<b>Manufacturing summary doc. No.:</b>	PSP064 Rev. No.:03		
<b>Products and manufacturing process(es):</b>	Steel foundry Sand moulding. Argon-Oxygen Decarburization refining process (AOD) of the New Unit 2 (NU2).		
<b>Mandatory conditions and subcontractors:</b>	Solution HEAT TREATMENT IN FURNACE FDI 2 . Weld repairs for minor defect without PWHT according to the WPS/PQR HD14/14. Weld repair for major defects with PWHT according to the WPS/PQR HD14/08. Lab Testing subcontracted to : LME (France); MECASEM (France); IPB (UK) Uniformity survey of furnace FDI2 shall be done yearly		
<b>Other information:</b>	Verification of heat treatment procedure witnessed by TÜV 14/05/2014 Verification of heat treatment procedure witnessed by Orion 26/01/2016		
<b>Qualification expires :</b>	12/2019		

### 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
Suction Case	TÜV Reinland report 7413/20 (order number)	240	240	578	All

### Qualification/acceptance signatures

<b>Manufacturer:</b> Acíéries Hachette et Driout	<b>Prepared by/Date:</b> 27/01/16 R Godfroy	<b>Checked by/Date:</b> 27/01/16 R. Tintillier
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The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials. 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

<b>Qualified/Accepted by (company name/address)</b> Orion S.p.A. Via G. e S. Caboto, 8 34147 TRIESTE TS P.IVA 00654680323	<b>Signature/Date:</b> ORION S.p.A. Q.A. MANAGER Fabio Bronzi 28-04-2016
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Rev 0 04/12/2014 (First edition) – Rev 1 26/01/2015 (Submittal of report to Orion and Statoil) – Rev2 27/01/2016 (comments from Orion taken into account and final submittal) – Rev3 Additional comments from Statoil taken into account and final submittal