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TEST, ANALYSIS & CONSULTING

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Heat treatment on alloys

Test Report No. 0346P22

Rapporto di Prova firmato digitalmente
dal Responsabile del Laboratorio
Test Report digitally signed by the Head
of the Centre
Ing. A. Gamanets

General data

Date di issue	08/02/2022	Addressee	Nuovo Pignone Via F.Matteucci,2 FI
Application	0804961	Date	07/02/2022
Referring to	G. Bandinu	Serial number	20220081
Item	Ring pieces		
Quantity	No. 4	Operator	MM
Date of measurements	07/02/2021	Place	Site D-Via F.Matteucci, 2- FI

Measurement instruments

Device	Furnace #3	Controller
Manufacturer	Lenton Furnaces	Eurotherm
Model	UAF 14/10	3504
Serial number	5863	FC1426001522

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Document Revision

Rev.	Modified section and brief description	Data/Date
0	Emission	08/02/2022

Introduction

The purpose of this activity is to perform a heat treatment on 4 parts of rings in A182 F6NM, A182 F22, A705 gr. 630 (17-4PH), X12Cr13 materials.

Single samples have been directly provided by customer.

Table no.1 and shows planned heat treatment.

Specimen No.	S/N	Material	Heat treatment
220081-1	NP6246827	17-4PH	400°C, 2h
220081-2	NP6282121	X12Cr13	400°C, 2h
220081-3	NP6240606	A182 F22	400°C, 2h
220081-4	NP6283659	A182 F6NM	400°C, 2h

Figure No. 1: Provided samples ready for H.T.

Heat treatment graph

Furnace has been taken at the correct temperature and specimens inserted. Heat treatment duration has been counted from the moment thermocouple temperature had reached a stable and correct temperature again.

At the end of the two hours specimens have been extracted and still air cooled.

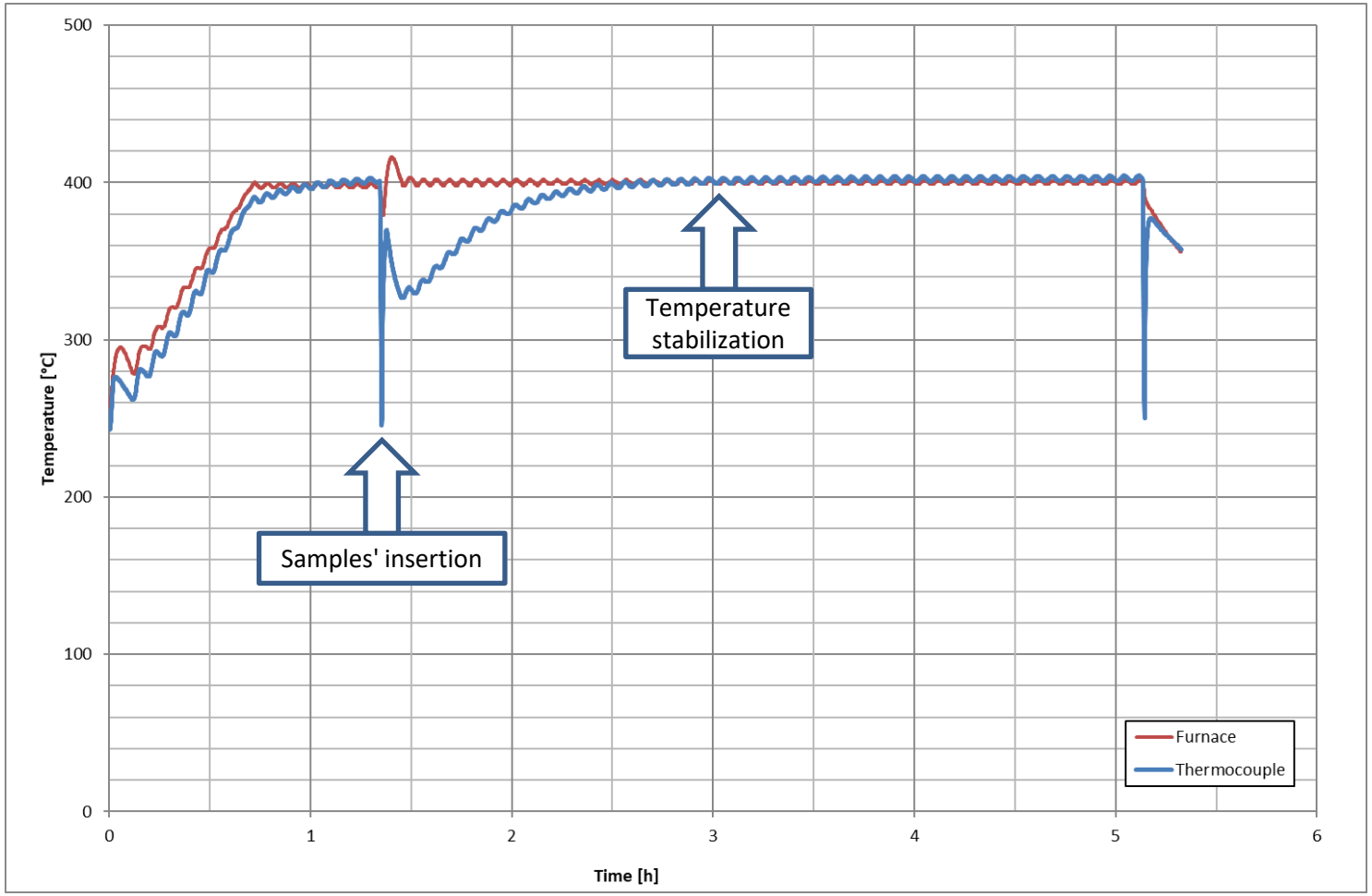

Figure No. 2: H.T. graph

Conclusions

Heat treatment has been performed according to customer's request.

Additional information

The results refer exclusively to the samples described in page 3.

Pontlab declines all responsibility for Customer's information.

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End of Report