MARK WETERHOF C903RV

# EXACT ENGINEERING

## Certificate of Conformance

SMD Hydrovision Limited
Turbinia Works
Davy Bank
Wallsend
Tyne & Wear

~~NE28 6UZ~~

Serial No: 013857

Our Delivery Note No: 062231

Date: 22/11/2007

Your Order Number: 58461

| EXACT JOB NO. | QUANTITY | DESCRIPTION/DRAWING/CAST |
|---|---|---|
| X 056137 -- | 1 off | Tube Pressure Vessel 4000M<br>AB6391 Issue 0<br>Cast No 23-4416 |

We hereby certify that the above mentioned goods/services supplied conform with the requirements of the above Purchase Order, designated drawings and relevant specifications; unless otherwise stated.

Details of any Concessions:

Mr Craig Paul
Inspector

Signed for and behalf of Exact Engineering Limited

X056137

KYMS

# INSPECTION CERTIFICATE № 07.13822

EN 10204 - 3.1

AS9100 SGS ISO 9001:2000 SGS

Consigner: KAMENSK URALSKY METALLURGICAL WORKS JOINT STOCK COMPANY
5, Zavodskaya Str., Kamensk Uralsky, Sverdlovsk Region, 623405, Russia Tel: (3439) 39 52 22 Fax: (3439) 39 50 83

Consignee: [redacted]

Quantity: 4

Net Weight, kg.: 3096

Contract number: Z8446-S
11440

Article number: -

Specification №: Z8446

Lot №: 6

Package №: 466531, 466532

Description of Goods: Round bars

Requirements on the Products:

| Grade of Product | Dimensions, inch/mm |
|---|---|
| d340 | 3000 |

Material conforms to quality of alloy: 7075 T6

Product conforms to all requirements of:
EN573-3,EN755-1,2,3

## Mechanical Properties

| The Condition of Tested Standards | Lot Number | Cast Number | Number of Tests | Tensile Strength MPa min | Tensile Strength MPa max | Yield Strength (0,2% offset) MPa min | Yield Strength (0,2% offset) MPa max | Elongation, % min | Elongation, % max | Hardness, HB |
|---|---|---|---|---|---|---|---|---|---|---|
| Required | | | | - | - | - | - | - | - | - |
| - | 7634 | 23-4416 | 2 | 564.0 | 583.0 | 491.0 | 526.0 | 8.0 | 11.0 | - |

## Chemical Composition, %

| Element | Silicon Si | Iron Fe | Copper Cu | Manganese Mn | Magnesium Mg | Chromium Cr | Nickel Ni | Zinc Zn | Titanium Ti | Zirconium Zr |
|---|---|---|---|---|---|---|---|---|---|---|
| Required | 0.4 | 0.5 | 1.2-2.0 | 0.3 | 2.1-2.9 | 0.18-0.28 | - | 5.1-6.1 | 0.2 | - |
| Contents | 0.03 | 0.3 | 1.4 | 0.01 | 2.4 | 0.21 | - | 5.5 | 0.09 | - |

| Element | Ti+Zr | Na | Tin Sn | Bismuth Bi | Plumbum Pb | Mn+Cr | Ca | Other Elements Each | Other Elements Total | Al |
|---|---|---|---|---|---|---|---|---|---|---|
| Required | - | - | - | - | - | - | - | 0.05 | 0.15 | remainder |
| Contents | - | - | - | - | - | - | - | 0.05 | 0.15 | remainder |

## Other Tests

| Method | Macro-structure | Micro-structure | USI | Electro-conductivity | Contents H2 of metals cm3/100gr |
|---|---|---|---|---|---|
| Result | - | - | ok | - | - |

MIL-STD-2154 USI CLASS "A" - 100%

On behalf: KUMW, JSC.

Shipping Date: 14.04.07

Inspector: T.A.Popova

Inspection Department engineer

KAMENSK-URALSKY METALLURGICAL WORKS JSC QUALITY DEPARTMENT

Geliefert durch K&K, Lilienthal
An: Hellpost
Kom.-Nr.: 105565
Verladedatum: 11.10.2007
Order-Nr.: 70933
Material wurde mit WAZ verglichen.
Original ist in unseren Händen.
[redacted]

EXACT ENGINEERING
CERTIFIED TRUE COPY
SIGNED C.Rogers
DATE 17-10-07