Date: October 28, 2012

CERTIFICATION OF WELDING CONSUMABLE

This is to advise you the Canadian Welding Bureau has witnessed tests on the following :

Company Name:	**HOBART BROTHERS CO., TUBULAR WIRE BUSINESS (PLANT 1)**
Electrode Designation:	**TRI-MARK METALLOY VANTAGE**
Point of Manufacture:	**Piqua, Ohio, USA**
Standard:	**CSA W48-06**
Classification:	**E491C-6MJ-H4**
Gas or Flux:	**Ar + 5%CO_2 TO 25%CO_2**
Size (mm):	**Min: 1.2 Max: 1.2**

Others Details:
In addition, the diffusible hydrogen tests was conducted in accordance with AWS A4.3-93 “Standard methods for determination of the diffusible hydrogen content of martensitic, banitic and ferritic steel weld metal produced by arc welding” and with within the limits sets by the standard above

Expiry date: **November 6, 2014**

This certification, may be extended by meeting the check test requirements of the applicable standard and CWB rules.

CANADIAN WELDING BUREAU

Alice Y. Lau, P. Eng.
Operations Manager, Procedures & Electrodes

AYL
TRMVANT1.2

The product certification system operated by the Canadian Welding Bureau most closely resembles that described by ISO/IEC Guide 67, *Conformity assessment — Fundamentals of product certification*, System 5.

8260 Parkhill Drive, Milton, Ontario L9T 5V7
Tel: 1.800.844.6790 info@cwbgroup.org
Fax: 905.542.1318 www.cwbgroup.org

Date: October 28, 2012

CERTIFICATION OF WELDING CONSUMABLE

This is to advise you the Canadian Welding Bureau has witnessed tests on the following :

Company Name:	**HOBART BROTHERS CO., TUBULAR WIRE BUSINESS (PLANT 1)**
Electrode Designation:	**TRI-MARK METALLOY VANTAGE**
Point of Manufacture:	**Piqua, Ohio, USA**
Standard:	**CSA W48-06**
Classification:	**E492C-6MJ-H4**
Gas or Flux:	**Ar + 5%CO_2 TO 25%CO_2**
Size (mm):	**Min: 1.4 Max: 1.6**

Others Details:
In addition, the diffusible hydrogen tests was conducted in accordance with AWS A4.3-93 “Standard methods for determination of the diffusible hydrogen content of martensitic, banitic and ferritic steel weld metal produced by arc welding” and with within the limits sets by the standard above

Expiry date: **November 6, 2014**

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CANADIAN WELDING BUREAU

Alice Y. Lau, P. Eng.
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