

T.M.U



Tarbiat Modares University

Faculty of Engineering

P.O.Box : 14115-143
Tehran, I.R. IRAN

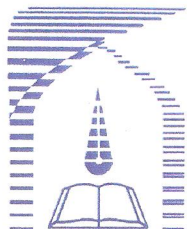
Tel : +98-21-82880
Fax : +98-21-82883381
www.modares.ac.ir

ELECTROCHEMICAL TEST REPORT

| | |
|-------------------------------|---|
| Type Of Material | Zn Sacrificial Anode |
| Client | Danesh Aria Co. (The Selection Of The Testing Sample Has Been Done By The Client) |
| Date | 21 Feb 2021 |
| Report Number | 99120304 |
| Initial Anode Specimen Weight | 29.211 g |
| Final Anode Specimen Weight | 25.752 g |

| Electrochemical Properties | | | | |
|----------------------------|-----------------------------|---------------------------|----------------------------------|---------------------------|
| Sample Number | Closed Circuit Potential(V) | Open Circuit Potential(V) | Electrochemical Capacity(A-h/kg) | Consumption Rate(kg/A-yr) |
| 01 | -1.04 | -1.11 | 806 | 10.87 |

| Acceptance Criteria According To DNV-RP-B401 & BS 7361 Standards | | | |
|--|---|----------------------------------|---------------------------|
| Closed Circuit Potential(V) | Open Circuit Potential(V) | Electrochemical Capacity(A-h/kg) | Consumption Rate(kg/A-yr) |
| -1.00 or more negative vs. Ag/AgCl/seawater reference electrode | -1.05 or more negative vs. Ag/AgCl/seawater reference electrode | 780 min | 11.23 max |



T.M.U

P.O.Box : 14115-143
Tehran, I.R. IRAN

Tel : +98-21-82880
Fax : +98-21-82883381
www.modares.ac.ir



Tarbiat Modares University

Faculty of Engineering

Test Conditions Maintained Throughout The Test Cycle

| | |
|---|-----------|
| pH | 8.2 |
| Resistivity | 30 ohm-cm |
| Temperature | 20 ± 3°C |
| Test Duration | 96 h |
| Anode Specimen Current Output On The First Day | 23.5 mA |
| Anode Specimen Current Output On The Second Day | 6.28 mA |
| Anode Specimen Current Output On The Third Day | 62.8 mA |
| Anode Specimen Current Output On The Forth Day | 23.5 mA |
| Saturated With Oxygen | |

Corrosion & Protection Lab
Dr. T. Shahrabi

Manager T. SHAHRABI
& Protection Lab

