

|                |          |
|----------------|----------|
| DATE           | 11/14/11 |
| INVOICE NO.    | 444719   |
| BILL OF LADING | 44368    |
| CUSTOMER NO.   | 5446     |
| CUSTOMER P.O.  | 600218   |

### NUCOR-YAMATO STEEL CO.

P.O. BOX 1228 • BLYTHEVILLE, AR 72316

### CERTIFIED MILL TEST REPORT

100% MELTED AND MANUFACTURED IN U.S.A.  
All shapes produced by Nucor-Yamato Steel are cast and rolled to a fully killed and fine grain practice.

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FB C/O JORGE MIGUEL MEDRANO SANCHEZ  
HIDALGO 3530 PAT 4100  
FINAL: SAN LUIS POTOSI, SLP MX  
NUEVO LAREDO, TM 88000

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ASTM A992/A992M-06a A572/A572M GR50-07  
ASTM A709/A709M-09 GR50 (345)  
ASTM A709/A709M-09 GR50S (345S)  
ASTM A6/A6M-09  
  
45738

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FERRE BARNIEDO, SA DE CV  
AV REVOLUCION #81 COL SAN CRISTOBAL  
ECATEPEC DE MORELOS  
EDO, MEXICO CP 55000

| ITEM # | ITEM DESCRIPTION                             | QTY | HEAT # | MECHANICAL PROPERTIES  |                |                  |       |               |        | CHEMICAL PROPERTIES |     |      |      |      |     |     |     |     |     |     |      |     |
|--------|--|-----|--------|------------------------|----------------|------------------|-------|---------------|--------|---------------------|-----|------|------|------|-----|-----|-----|-----|-----|-----|------|-----|
|        |  |     |        | YIELD TO TENSILE RATIO | YIELD STRENGTH | TENSILE STRENGTH | ELONG | CHARPY IMPACT |        | C                   | Mn  | P    | S    | Si   | Cu  | Ni  | Cr  | Mo  | V   | Cb  | CE   |     |
|        |  |     |        |                        | PSI            | PSI              |       | ° F           | FT-LBS |                     |     |      |      |      |     |     |     |     |     |     |      |     |
|        |  |     |        |                        | MPa            | MPa              |       |               |        |                     |     |      |      |      |     |     |     |     |     |     |      | ° C |
| 1      | W14 - 90.0<br>40'<br>W360 x134.0<br>12.192 M | 3   | 375106 | .82                    | 59000          | 72000            | 26    |               |        |                     | .08 | 1.00 | .019 | .025 | .24 | .30 | .10 | .13 | .03 | .00 | .019 | .31 |
| 2      | W14 - 90.0<br>40'<br>W360 x134.0<br>12.192 M | 4   | 375115 | .81                    | 58000          | 72000            | 24    |               |        |                     | .07 | 1.10 | .014 | .025 | .20 | .32 | .11 | .10 | .04 | .00 | .018 | .31 |
| 3      | W14 - 90.0<br>40'<br>W360 x134.0<br>12.192 M | 8   | 375116 | .79                    | 58000          | 73000            | 24    |               |        |                     | .07 | 1.25 | .016 | .020 | .25 | .29 | .12 | .13 | .04 | .03 | .010 | .35 |
| 4      | W14 - 90.0<br>40'<br>W360 x134.0<br>12.192 M | 5   | 375118 | .79                    | 57000          | 72000            | 24    |               |        |                     | .07 | 1.20 | .015 | .020 | .23 | .31 | .11 | .11 | .03 | .04 | .002 | .34 |
| 5      | W14 - 90.0<br>40'<br>W360 x134.0<br>12.192 M | 12  | 375120 | .80                    | 59000          | 74000            | 25    |               |        |                     | .07 | 1.25 | .016 | .022 | .25 | .30 | .11 | .15 | .03 | .02 | .010 | .35 |
| 6      | W14 - 90.0<br>40'<br>W360 x134.0<br>12.192 M | 3   | 375122 | .80                    | 59000          | 74000            | 25    |               |        |                     | .08 | 1.25 | .016 | .023 | .25 | .30 | .10 | .14 | .03 | .02 | .008 | .36 |
| 7      | W14 - 90.0<br>40'<br>W360 x134.0<br>12.192 M | 2   | 375133 | .81                    | 58000          | 72000            | 25    |               |        |                     | .07 | 1.28 | .019 | .028 | .25 | .30 | .11 | .14 | .03 | .02 | .009 | .35 |
| 8      | W14 - 90.0<br>40'<br>W360 x134.0<br>12.192 M | 11  | 375135 | .78                    | 56000          | 72000            | 26    |               |        |                     | .07 | 1.27 | .019 | .026 | .23 | .30 | .10 | .12 | .03 | .02 | .010 | .34 |

FERRE BARNIEDO, SA DE CV  
 ESTE CERTIFICADO ORIGINAL  
 AMPARA LA REMISION DE NUESTROS ARCHIVOS  
 TEL 58-36-10-00  
 ventas@ferrebarniedo.com.mx

Pcm = C + Si + Mn + Cu + Ni + Cr + Mo + V + S B = Approx. 0.005  
 CARBON EQUIVALENT: CE = CE(IIW) = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15  
 Corrosion Index: CI = 26.01(%Cu) + 3.88(%Ni) + 1.20(%Cr) + 1.49(%Si) + 17.28(%P) + 7.29(%Cu)(%Ni) + 9.10(%Ni)(%P) + 33.39(%Cu)<sup>2</sup>  
 Mercury has not been used in the direct manufacturing of this material.

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by this material manufacturer are in compliance with the requirements of the material specifications listed in the Specifications Block above.

*Ray Lonnell*  
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 QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI  
 SWORN TO AND SUBSCRIBED BEFORE ME THIS  
 14 Day of 11/11  
*Charlene Wallis*  
 NOTARY PUBLIC  
 MY COMMISSION EXPIRES 10/21/2013  
 CHARLENE WALLIS  
 MY  
 Comm. Exp.  
 NOTARY  
 PUBLIC  
 10-21-2013  
 MISSISSIPPI CO. ARKANSAS