

| Sample Result Name           | Type                          | Measure Date Time         | Recalculation Date Time | Origin            |
|------------------------------|-------------------------------|---------------------------|-------------------------|-------------------|
| 9772 (Ino-312034 ) dia-56 mm | Unknown                       | Saturday, August 02, 2014 | 12:14:35 PM             | Measured          |
| Method Name                  | Method Version                | Operator Name             | Check Type              | Check Status      |
| Fe-30-MO                     |                               | SARA SAE                  | None                    | Not Used          |
| Grade Verification Name      | Grade Verification Similarity | Correction Type           | Type Corr Sample Name   | Grade Search Name |
|                              | 0                             | None                      |                         |                   |

| Grade Search Similarity | Type | Status   | Outlier Removal |
|-------------------------|------|----------|-----------------|
| 0                       | None | Not Used |                 |

Sample Name  
9772 (Ino-312034 ) dia-56 mm

|         | C     | Si    | Mn    | P     | S     | Cr     | Mo     | Ni     | Al    | Co     | Cu    | Nb     | Ti      | V       | W      | Pb     | Sn      | As     | Zr     |
|---------|-------|-------|-------|-------|-------|--------|--------|--------|-------|--------|-------|--------|---------|---------|--------|--------|---------|--------|--------|
| 1       | 0.14  | 0.17  | 0.36  | 0.015 | 0.013 | 0.006  | <0.003 | <0.005 | 0.009 | <0.005 | 0.005 | <0.005 | <0.0010 | <0.002  | <0.040 | <0.010 | <0.002  | <0.005 | <0.003 |
| 2       | 0.13  | 0.17  | 0.36  | 0.016 | 0.014 | 0.007  | <0.003 | 0.007  | 0.010 | 0.006  | 0.004 | <0.005 | <0.0010 | <0.002  | <0.040 | <0.010 | <0.002  | <0.005 | <0.003 |
| 3       | 0.15  | 0.18  | 0.37  | 0.018 | 0.018 | 0.006  | <0.003 | 0.006  | 0.011 | 0.006  | 0.004 | <0.005 | <0.0010 | <0.002  | <0.040 | 0.011  | <0.002  | <0.005 | <0.003 |
| 4       | 0.14  | 0.19  | 0.36  | 0.020 | 0.020 | <0.005 | <0.003 | 0.005  | 0.011 | <0.005 | 0.004 | <0.005 | <0.0010 | <0.002  | <0.040 | 0.014  | <0.002  | <0.005 | <0.003 |
| 5       | 0.14  | 0.18  | 0.37  | 0.017 | 0.017 | <0.005 | <0.003 | 0.008  | 0.014 | <0.005 | 0.005 | <0.005 | <0.0010 | <0.002  | <0.040 | 0.016  | <0.002  | <0.005 | <0.003 |
| Rep     | 0.14  | 0.18  | 0.36  | 0.017 | 0.016 | 0.006  | <0.003 | 0.006  | 0.011 | 0.006  | 0.004 | <0.005 | <0.0010 | <0.002  | <0.040 | 0.012  | <0.002  | <0.005 | <0.003 |
| Min Cal | 0.006 | 0.005 | 0.004 | 0.003 | 0.002 | 0.005  | 0.003  | 0.005  | 0.003 | 0.005  | 0.002 | 0.005  | 0.0010  | 0.002   | 0.040  | 0.010  | 0.002   | 0.005  | 0.003  |
| Mean    | 0.14  | 0.18  | 0.36  | 0.017 | 0.016 | 0.005  | <0.003 | 0.006  | 0.011 | <0.005 | 0.004 | <0.011 | <0.005  | <0.0010 | <0.039 | 0.011  | <0.0001 | <0.002 | <0.001 |
| Max Cal | 3.00  | 5.04  | 18.12 | 0.18  | 0.30  | 36.00  | 10.20  | 55.2   | 6.24  | 21.60  | 7.44  | 3.60   | 3.60    | 12.00   | 7.32   | 0.13   | 0.27    | 0.13   | 0.19   |

|         | Ca      | B       | Fe   |
|---------|---------|---------|------|
| 1       | 0.0007  | <0.0005 | 99.2 |
| 2       | 0.001   | <0.0005 | 99.2 |
| 3       | <0.0005 | <0.0005 | 99.2 |
| 4       | 0.0010  | <0.0005 | 99.2 |
| 5       | 0.0009  | <0.0005 | 99.2 |
| Rep     | 0.0009  | <0.0005 | 99.2 |
| Min Cal | 0.0005  | 0.0005  | 99.3 |
| Mean    | 0.0009  | <0.0007 | 99.3 |
| Max Cal | 0.016   | 0.025   |      |

Quality is 1010 as per  
802 26-747

Dekebi

8/2/2014

Sample Results

| DETAILS                                                   |                         |                                                    |                      | CUSTOMER/DESTINATION                                                                                                                                        |          |       |          |       |               |       |          |       |                       | WAGON/TRUCK/TRAILOR NUMBERS |               |              |                     | R.R. WEIGHT (TONS) |               |                       |  |
|-----------------------------------------------------------|-------------------------|----------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|----------|-------|---------------|-------|----------|-------|-----------------------|-----------------------------|---------------|--------------|---------------------|--------------------|---------------|-----------------------|--|
| QMS/R/QAD/RM/15/M/2014-15/9180/000049    DATE: 29.07.2014 |                         |                                                    |                      | SARA SAE PRIVATE LIMITED UNIT - II,<br>A-2, SARA INDUSTRIAL ESTATE LIMITED, RAMPUR,CHAKRATA<br>ROAD,SELAQUI, DEHRADUN, Dehradun-Dist,<br>Uttarakhand, India |          |       |          |       |               |       |          |       |                       | HR04N 1233.                 |               |              |                     | 30.800             |               |                       |  |
| 7180400373                                                |                         |                                                    |                      | DATE: 29.07.2014                                                                                                                                            |          |       |          |       |               |       |          |       |                       |                             |               |              |                     |                    |               |                       |  |
| SECTION                                                   | NOMINAL<br>SIZE<br>(mm) | NO. OF<br>COILS/<br>BUNDLES/<br>BILLETS/<br>BLOOMS | CHEMICAL COMPOSITION |                                                                                                                                                             |          |       |          |       |               |       |          |       | MECHANICAL PROPERTIES |                             |               |              |                     |                    | COLOR<br>CODE | GRADE/<br>DESIGNATION |  |
|                                                           |                         |                                                    | C                    | MN                                                                                                                                                          | P        | S     | SI       | AL    | CR            | CU    | CE       | YS    | UTS                   | %EL                         | RA            | BEND<br>TEST | RE-<br>BEND<br>TEST |                    |               |                       |  |
|                                                           |                         |                                                    |                      |                                                                                                                                                             |          |       |          |       |               |       |          |       |                       |                             |               |              |                     |                    |               |                       |  |
| MP                                                        | 56                      | 1                                                  | 0.110                | 0.420                                                                                                                                                       | 0.018    | 0.014 | 0.170    | 0.035 | 0.008         | 0.000 | 0.180    | 0.272 | 0.398                 | 0030                        | ---           | NA           | NA                  | BLACK+PINK         | SAE1010       |                       |  |
| CARD SPECIFICATION:                                       |                         |                                                    |                      |                                                                                                                                                             |          |       |          |       |               |       |          |       |                       |                             |               |              |                     |                    |               |                       |  |
| CHEMICAL                                                  | C                       | MN                                                 | P                    |                                                                                                                                                             | S        |       | SI       |       | AL            |       | CR       |       | CU                    |                             | CE            |              |                     |                    |               |                       |  |
|                                                           | 0.080 - 0.130           | 0.300 - 0.600                                      | <= 0.040             |                                                                                                                                                             | <= 0.050 |       | <= 0.300 |       | 0.020 - 0.150 |       | <= 0.050 |       | NA                    |                             | 0.130 - 0.240 |              |                     |                    |               |                       |  |
| MECHANICAL                                                | YS                      | UTS                                                | %EL                  |                                                                                                                                                             | RA       |       |          |       |               |       |          |       |                       |                             |               |              |                     |                    |               |                       |  |
|                                                           | 200 - 380               | 300 - 450                                          | >= 20                |                                                                                                                                                             | >= 20    |       |          |       |               |       |          |       |                       |                             |               |              |                     |                    |               |                       |  |

MATERIAL SUPPLIED CONFORMS TO THE STANDARD ROLLING AND MASS TOLERANCES

AGE WEIGHT OF EACH BUNDLE/COIL/BILLET/BLOOM IS 30.800 TONS APPROXIMATELY

IFACUTRING ROUTE: BOF-LF/IRUT'-CCM-ROUND

CTION RATIO: 24.36 : 1

FOR (QA & TD)  
VISA KAPATNAM STEEL PLANT

Quality in 1010 as per  
Spec 26-747  
Copoly.