

REPORT OF CHEMICAL/PHYSICAL TESTS

| | | |
|--------------------|--------------|------|
| CERTIFICATE NO. | DATE | PAGE |
| 1531188 | Dec 21, 2016 | 1 |
| MILL ORDER NO. | DATE | |
| 304961 | | |
| CUSTOMER ORDER NO. | | |
| 280492 | | |
| JOB/REQ. NO. | | |
| | | |
| SHIPPING NO. | DATE | |
| 1531188 | 12/21/2016 | |
| CARRIER | | |
| UNION PACIFIC | | |
| CAR/TRUCK NO. | | |
| SSW88310 | | |



SOLD TO

NORTH SHORE SUPPLY COMPANY
PO BOX 9940
HOUSTON, TX 77213
USA

NORTH SHORE SUPPLY COMPANY
PO BOX 9940
HOUSTON, TX 77213
USA

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS CARBON STRUCTURAL QUALITY PLATE ASTM A36-14/ASME SA36 2015 ABS GR A/B A131 A/B NO WELD REPAIR. KILLED FINE GRAIN PRACTICE. .80 MIN MN, 1.20 MAX MN, REPORT ALL RESIDUALS PER SA20 TABLE 1(7.1.1).

PHYSICAL PROPERTIES

| ITEM NO | DESCRIPTION | HEAT NO. | SLAB | YIELD PSI X 100 | TENSILE PSI X 100 | % ELONG 8" 2" | % RA | HARDNESS BHN | BEND TEST | IMPACTS |
|---|---------------------------------|----------|------|--------------------|----------------------|------------------|------|-----------------|--------------|---------|
| WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED TO THE APPLICABLE SPECIFICATION AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN BUREAU OF SHIPPING RULES WITH SATISFACTORY RESULTS. | | | | | | | | | | |
| 3 | 0.6250 X 120.000ME X 480.000 | | | | | | | | | |
| | 2 PCS 20420 LBS | ^ N12636 | | 428 | 640 | 39 | | | | |
| | 4 PCS 40840 LBS | ^ N12639 | | 405 | 610 | 28 | | | | |
| | | | | 419 | 635 | 32 | | | | |
| | 2 PCS 20420 LBS | ^ N12641 | | 420 | 635 | 40 | | | | |
| | 2 PCS 20420 LBS | ^ N12646 | | 438 | 640 | 42 | | | | |
| | <u>10 PCS 102100 LBS TOTALS</u> | | | | | | | | | |



CHEMICAL ANALYSIS

| HEAT NO. | C | Mn | P | S | Si | Cu | Ni | V | Cb | Al | Cr | Mo | Ti | B | N | Ca | CE | McQuaid Ehn Grain Size |
|----------|-----|-----|------|------|-----|-----|-----|------|------|------|-----|-----|----|---|---|----|----|---------------------------|
| ^N12636 | .14 | .87 | .014 | .004 | .23 | .02 | .05 | .008 | .000 | .036 | .02 | .00 | | | | | | |
| ^N12639 | .14 | .88 | .012 | .007 | .23 | .02 | .05 | .006 | .000 | .032 | .02 | .00 | | | | | | |
| ^N12641 | .14 | .89 | .012 | .005 | .22 | .02 | .05 | .006 | .000 | .033 | .02 | .00 | | | | | | |
| ^N12646 | .14 | .93 | .011 | .005 | .22 | .02 | .05 | .006 | .000 | .034 | .02 | .00 | | | | | | |

Charles Perry

HEATS INDICATED WITH (+) WERE MELTED & MANUFACTURED IN THE USA. HEATS INDICATED WITH (^) WERE ROLLED IN THE USA.

..... END OF REPORT

I certify the above to be correct as contained in the records of EVRAZ INC. NA By Charles Perry Quality Coordinator