

30360-1



**MILL TEST REPORT**

**PRODUCT:** 1" C80 ASTM A-23-A / NMX B-177  
**FINISHING:** TUBO BARNIZADO EXTREMO L150

**CUSTOMER:** BODEGAS PYLSA

**SHIPPING DATE:** 23/09/15

**SPORT PLATAFORM:**

**INVOICE:** 007807  
**ORDER:** NA

**TRANSPORT/ TRANSPORTE:** OTERO HERNANDEZ FRANCISCO GABRIEL  
**MANUFACTURER/ PLANTA:** LAMINA Y PLACA COMERCIAL S.A DE C.V.  
 DIEGO DIAZ DE BERLANGA, NO. 1002 SUR  
 SAN NICOLAS DE LOS GARZA, NUEVO LEON, MEXICO

I HEREBY CERTIFY THAT THE PRODUCT ACCOMPLISHED WITH THE SPECIFICATION TO THE INVOICE AND/ OR REMISSION ( DATABASE OF SYSTEM )  
 ESTE PRODUCTO FUE FABRICADO BAJO LA NORMA QUE SE DESCRIBE HACIENDO CUMPLIR LOS REQUERIMIENTOS DE LA ESPECIFICACION (BASE DE DATOS DEL SISTEMA).

**PROCESS:** HFW

| MANUFACTURING INFORMATION/ INFORMACION DE MANUFACTURA |       |      |            |       |                  |                | DIMENSIONS (DIMENSIONES) |                |              |
|---|-------|------|------------|-------|------------------|----------------|--------------------------|----------------|--------------|
| DATE  | SHIFT | OPER | ORDER OP # | GRADE | MANUFACT PROCESS | HEAT TREATMENT | OUTSIDE DIAMETER (In)    | Thickness (In) | LENGTH (Mts) |
| 12/02/15  | 1     | COM  | 282        | A     | E                | N/A            | 1.315"                   | 0.175"         | 6.40         |

| ONLINE TESTS (PRUEBAS DE CAMPO) |                        |                    |            |                            |                    |              |                 |                   |  |
|---------------------------------|------------------------|--------------------|------------|----------------------------|--------------------|--------------|-----------------|-------------------|--|
| HEAT NUMBER (COLADA)            | HYDROSTATIC TEST (PSI) | DELIVERY CONDITION | TIME (Sec) | NON-DESTRUCTIVE TEST (PND) | METALLOGRAPHY TEST | BENDING TEST | FLATTENING TEST | VISUAL INSPECTION |  |
| 142867                          | 857                    | AS ROLLED          | 5          | OK                         | N/A                | N/A          | OK              | OK                |  |

| HEAT NUMBER (COLADA) | %C     | %Mn    | %P     | %S     | %Si           | %Cr     | %Mo    | %Ni            | %Cu                 |
|----------------------|--------|--------|--------|--------|---------------|---------|--------|----------------|---------------------|
| 142867               | 0.0860 | 0.3320 | 0.0110 | 0.0120 | 0.0100        | 0.0000  | 0.0000 | 0.0000         | 0.0000              |
|                      | %Nb    | %Sn    | %Ti    | %V     | YIELD ST (PS) | UT (PS) | %ELONG | HARDNESS (HRB) | CARBON EQUIVALENT % |
| 0.0010               | 0.0000 | 0.0010 | 0.0010 |        | 47800         | 58600   | 22.500 | 80             | N/A                 |

| CHARPY TEST (PRUEBA CHARPY) |                         |     |     |         |                     |
|-----------------------------|-------------------------|-----|-----|---------|---------------------|
| HEAT IDENT NUM              | ABSORBED ENERGY (FT-LB) |     |     | AVERAGE | TEMPERATURE TEST °C |
|                             | 1                       | 2   | 3   |         |                     |
| 142867                      | N/A                     | N/A | N/A | N/A     | N/A                 |

NOTE: THE SUM OF THE NIOBIUM, VANADIUM AND TITANIUM CONCENTRATIONS SHALL BE 0.15%  
 NOTA: LA SUMA DE LA CONCENTRACION DE NIOBIO, VANADIO Y TITANIO NO DEBE SER 0.15%

I HAVE PERSONAL KNOWLEDGE AS TO ACCURACY OF THE ABOVE INFORMATION, AND HAVE AUTHORITY TO SIGN ON BEHALF OF THE COMPANY.  
 TENGO EL CONOCIMIENTO Y AUTORIZACION EN NOMBRE DE LA COMPANIA PARA AVALAR ESTA INFORMACION

SINCERELY

ING. DAVID ANGEL MOLINA PEREZ  
 QUALITY ASSURANCE MANAGER