



# VILLACERO

## MILL TEST REPORT

**PRODUCT:** 1" C80 ASTM A-53-A / NMX B-177  
**FINISHING:** TUBO BARNIZADO EXTREMO LISO

**CUSTOMER:** BODEGA PYLSA

**SHIPPING DATE:** 91103113

**SPORT PLATAFORM:**

S.TV.

**INVOICE:** 5374T  
**ORDER:** NIA

**TRANSPORT/ TRANSPORTE:**

**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)
05/02/13	1	COM	39	A	E	NO	1.315"	0.179"	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	
261341011	1000	AS ROLLED	5	OK	N/A	N/A	OK	OK	

HEAT NUMBER (COLADA)	%C	%Mn	%P	%S	%Si	%Cr	%Mo	%Ni	%Cu
261341011	0.0840	0.3240	0.0100	0.0140	0.0050	0.0000	0.0000	0.0000	0.0000
%Nb	%Sn	%Ti	%V		YIELD ST (PSI)	UT (PSI)	% ELONG	HARDNESS (HRb)	CARBON EQUIVALENT %
0.0000	0.0000	0.0000	0.0000		49674	55652	29.900	74	N/A

CHARPY TEST (PRUEBA CHARPY)					
HEAT IDENT NUM	ABSORBED ENERGY (FT-LB)			AVERAGE	TEMPERATURE TEST °C
	1	2	3		
261341011	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 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 COMPAÑIA PARA AVALAR ESTA INFORMACIÓN.

SINCERELY

ING. JOSE GILBERTO GUZMAN RUIZ

QUALITY ASSURANCE MANAGER