



# VILLACERO

34612-1

## MILL TEST REPORT

**PRODUCT:** 2" C80 ASTM A-53-A / NMX B-177  
**FINISHING:** TUBERIA BARNIZADA EXTREMO LISO

**CUSTOMER:** BODEGA PYLSA

**SHIPPING DATE:** 17/09/14

**SPORT PLATAFORM:**

**INVOICE:** 6911T

**ORDER:** N/A

**TRANSPORT/ TRANSPORTE:** CHAVEZ MARTINEZ NAPOLEON

**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)
11/09/14	1	COM	264	A	E	NO	2.375"	0.218	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	
434423	2514	AS ROLLED	5	OK	N/A	N/A	OK	OK	

CHEMICAL ANALYSIS (ANALISIS QUIMICOS)/ MECHANICAL PROPERTIES (PROPIEDADES MECANICAS)									
HEAT NUMBER (COLADA)	%C	%Mn	%P	%S	%Si	%Cr	%Mo	%Ni	%Cu
434423	0.0880	0.3340	0.0230	0.0060	0.0060	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	0.0004	0.0040		50200	61300	26.90	78	N/A

CHARPY TEST (PRUEBA CHARPY)					
HEAT IDENT NUM	ABSORBED ENERGY (FT-LB)			AVERAGE	TEMPERATURE TEST °C
	1	2	3		
434423	N/A	N/A	N/A	N/A	N/A

NOTE: THE SUM OF THE NIOBIUM, VANADIUM AND TITANIUM CONCENTRATIONS SHALL BE

NOTA: LA SUMA DE LA CONCENTRACION DE NIOBIO, VANADIO Y TITANIO NO DEBE SER

$\leq 0.15\%$   
 $\leq 0.15\%$

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 INFORMACION.

SINCERELY

ING. DAVID ANGEL MOLINA PEREZ

QUALITY ASSURANCE MANAGER