

EA-94270

359163



**VILLACERO**

**MILL TEST REPORT**

PRODUCT: 1 1/2" OD ASTM A-53A / NMX B-177  
 FINISHING: TUBO BARNIZADO EXTREMO LISO

CUSTOMER: BODEGAS PULSA

SHIPPING DATE: 09/06/18

SPORT PLATAFORMA:

INVOICE: 006307  
 ORDER: NA

TRANSPORT/TRANSPORTE: OTERO HERNANDEZ FRANCISCO GABRIEL  
 MANUFACTURER/PLANTA: LAMINA Y PLACA COMERCIAL S.A DE CV.  
 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: HPV

MANUFACTURING INFORMATION/ INFORMACION DE MANUFACTURA						DIMENSIONS (DIMENSIONES)			
DATE	SHIFT	OPER	ORDER OP #	GRADE	MANUFACT PROCESS	HEAT TREATMENT	OUTSIDE DIAMETER (in)	THICKNESS (in)	LENGTH (ft)
30/05/15	1	COM	97	A	E	NO	1.990"	.203"	6.411

ONLINE TESTS (PRUEBAS DE CAMPO)									
HEAT NUMBER (COLADA)	HYDROSTATIC TEST (PSI)	DELIVERY CONDITION	TIME (Sec.)	NON-DESTRUCTIVE TEST	(PRN)	METALLOGRAPHY TEST	BENDING TEST	FLATTENING TEST	VISUAL INSPECTION
131286	1814	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
131286	0.0640	0.3310	0.0090	0.0100	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	0.0000	0.0000		53300	59300	29.700	74	N/A

CHARPY TEST (PRUEBA CHARPY)				
HEAT IDENT NUM	ABSORBED ENERGY (FT-LB)			AVERAGE TEMPERATURE TEST °C
	1	2	3	
131286	N/A	N/A	N/A	N/A

NOTE: THE SHOW OF THE HIGHEST VARIATION AND STANDARD CONCENTRATIONS SHALL BE  
 NOTA: LA SIMA DE LA CONCENTRACION DE NIOBIO, VANADIO Y TITANIO NO DEBE SER  $\leq$  0.151  
 $\leq$  0.158

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