

Mill Test Report

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Issuing Date : 09/17/2005
 Vehicle No : LW 62108
 Specification : 0.7500" x 72.000" x 240.000" / 19mm x 1829mm x 6096mm
 ASTM A36-05/ASTM A709 Grade 36-05/ASME SA36-03a

BL No. : 108701
 Load No. : 110683
 Sold To : Dufenco Steel Inc
 100 Matawan Road
 Suite 400
 MATAWAN, NJ 07747

Our Order No. : 37805/1
 Cust. Order No. : 1003010027
 Ship To : DUFENCO STEEL C/O PLESA ANAHUAC
 Y CIAS
 FOR FURTHERANCE INTO MEXICO
 SPECIALIST IN TRANSIT FORWARDING
 LAREDO TX
 LECHERIA, MEX 54940

Marking :

Heat No	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Alz	V	Nb	Ti	N	Ca	B	Sn	CEQ	PCM
5105960	0.18	0.89	0.011	0.004	0.19	0.26	0.11	0.09	0.01	0.029	0.009	0.008	0.002		0.0021	0.0004	0.015	0.38	0.26
5105964	0.19	0.89	0.011	0.004	0.18	0.33	0.11	0.11	0.02	0.044	0.009	0.008	0.002	0.0085	0.0012	0.0004	0.016	0.39	0.27
5105972	0.18	0.81	0.012	0.005	0.08	0.29	0.10	0.10	0.01	0.021	0.009	0.007	0.001	0.0065	0.0008	0.0003	0.014	0.36	0.24
5105976	0.18	0.85	0.013	0.009	0.09	0.27	0.11	0.09	0.01	0.037	0.009	0.007	0.001	0.0065	0.0043	0.0004	0.017	0.37	0.25

Plate Serial No	Pieces	Dir.	Tensile Test		Elongation % in 2"	Elongation % in 8"	Charpy Impacts			Size	Temp Ave.	Min Ave.
			(psi) Yield	(psi) Tensile			(%) shear 1	(%) shear 2	(%) shear 3			
5105960-09	7	T	45,100	72,100	20.8	19.0						
5105964-07	7	T	45,300	72,600	21.5	23.8						
5105972-08	7	T	40,400	68,100	23.5	22.7						
5105976-08	4	T	42,600	69,700	20.8	25.9						

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Manufactured to fully killed fine grain practice by Electric Arc Furnace. Welding or weld repair was not performed on this material.
 Mercury has not been used in the direct manufacturing of this material. Produced as continuous cast as-rolled discrete plate.
 Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Mn/6)+(Cr+Mo+V)/5+(Cu+Ni)/15
 Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B
 Melted and manufactured in the USA. ISO 9001-2000 certified (#12443-0) by SRI Quality System Registrar (#0985-09). PED 97/23/EC Compliant.
 DIN 50049 3.1.B/EN 10204 3.1.B(2004) compliant. For ABS grades only. Quality Assurance certificate No. 03-MMPQA-182

We hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with the applicable specifications.

T. A. Depreits, Metallurgist

09/20/2005 1:33:18 PM

Issuing Date : 09/17/2005 B/L No. : 108701 Load No. : 110683 Our Order No. : 37805/1 Cust. Order No. : 1003010027
 Vehicle No : LW 62108 Sold To : Dufenco Steel Inc 100 Matawan Road Suite 400 MATAWAN, NJ 07747
 Specification : 0.7500" x 72.000" x 240.000" / 19mm x 1829mm x 6096mm
 ASTM A36-05/ASTM A709 Grade 36-05/ASME SA36-03a

Ship To : DUFERCO STEEL C/O PLESA ANAHUAC
 Y CIAS
 FOR FURTHERANCE INTO MEXICO
 SPECIALIST IN TRANSIT FORWARDING
 LAREDO TX
 LECHERIA, MEX 54940

Marking :

Heat No	C	Mn	P	S	Si	Cu	NI	CR	Mo	Alz	V	Nb	TI	N	Ca	B	Sn	CEQ	PCM
5105960	0.18	0.89	0.011	0.004	0.19	0.26	0.11	0.09	0.01	0.029	0.009	0.008	0.002		0.0021	0.0004	0.015	0.38	0.26
5105964	0.19	0.89	0.011	0.004	0.18	0.33	0.11	0.11	0.02	0.044	0.009	0.008	0.002	0.0085	0.0012	0.0004	0.016	0.39	0.27
5105972	0.18	0.81	0.012	0.005	0.08	0.29	0.10	0.10	0.01	0.021	0.009	0.007	0.001	0.0065	0.0008	0.0003	0.014	0.36	0.24
5105976	0.18	0.85	0.013	0.009	0.09	0.27	0.11	0.09	0.01	0.037	0.009	0.007	0.001	0.0065	0.0043	0.0004	0.017	0.37	0.25

Metric Results Plate Serial No	Pieces	Dir.	Tensile Test			Elongation		
			(MPa) Yield	(MPa) Tensile	% in 2"	% in 8"	Dir.	
5105960-09	7	T	311	497	20.8			
		T	299	485	19.0			
5105964-07	7	T	312	501	21.5			
		T	313	503	23.8			
5105972-08	7	T	279	470	23.5			
		T	284	463	22.7			
5105976-08	4	T	294	481	20.8			
		T	339	501	25.9			

Charpy Impacts	1			2			3			Ave.	Size	Temp	Min Ave.
	(%) shear	(%) shear	(%) shear	(%) shear	(%) shear	(%) shear	(%) shear	(%) shear					

Manufactured to fully killed fine grain practice by Electric Arc Furnace. Welding or weld repair was not performed on this material. We hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with the applicable specifications.

Mercury has not been used in the direct manufacturing of this material. Produced as continuous cast as-rolled discrete plate.

Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Mn/6)+((C+Mn+V)/5)+((Cu+Ni)/15)

Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B

Melted and manufactured in the USA. ISO 9001-2000 certified (#12443-0) by SRI Quality System Registrar (#0985-09). PED 97/23/EC Compliant.

DIN 50049 3.1; B1EN 10204 3.1; B(2004) compliant. For ABS grades only. Quality Assurance certificate No. 03-MMPQA-182

T. A. Depretis, Metallurgist

Issuing Date : 09/17/2005
 Vehicle No : LW 62108
 Specification : 1.5000" x 72.000" x 240.000" / 38mm x 1829mm x 6096mm
 ASTM A36-05/ASTM A709 Grade 36-05/ASME SA36-03a

B/L No. : 108701
 Load No. : 110683
 Our Order No. : 37805/4
 Cust. Order No. : 1003010027
 Sold To : Dufenco Steel Inc
 100 Matawan Road
 Suite 400
 MATAWAN, NJ 07747
 Ship To : DUFERCO STEEL C/O PLESA ANAHUAC
 Y CIAS
 FOR FURTHERANCE INTO MEXICO
 SPECIALIST IN TRANSIT FORWARDING
 LAREDO TX
 LECHERIA, MEX 54940

Marking :

Heat No	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	AlZ	V	Nb	Ti	N	Ca	B	Sn	CEQ	PCM
5105969	0.19	0.89	0.012	0.005	0.18	0.30	0.12	0.11	0.01	0.018	0.009	0.007	0.002	0.0081	0.0011	0.0003	0.013	0.39	0.27

Plate Serial No	Pieces	Dir.	Tensile Test			Charpy Impacts			Size	Temp	Min Ave.
			(psi) Yield	(psi) Tensile	Elongation % in 2"	(%) shear	(%) shear	(%) shear			
5105969-06	4	T	48,800	74,000	22.1	1	2	3			
		T	43,100	72,100	18.3						
5105969-07	4	T	48,800	74,000	22.1						
		T	43,100	72,100	18.3						
5105969-08	4	T	48,800	74,000	22.1						
		T	43,100	72,100	18.3						

Plate Serial No	Pieces	Dir.	Tensile Test			Charpy Impacts			Size	Temp	Min Ave.
			(MPa) Yield	(MPa) Tensile	Elongation % in 2"	(%) shear	(%) shear	(%) shear			
5105969-06	4	T	336	510	22.1	1	2	3			
		T	297	497	18.3						
5105969-07	4	T	336	510	22.1						
		T	297	497	18.3						
5105969-08	4	T	336	510	22.1						
		T	297	497	18.3						

Manufactured to fully killed practice by Electric Arc Furnace. Welding or weld repair was not performed on this material.
 Mercury has not been used in the direct manufacturing of this material. Produced as continuous cast as-rolled discrete plate.
 Yield by 0.5EUL method unless otherwise specified. $Ceq = C + (Mn/6) + ((Cr+Mo+V)/5) + ((Cu+Ni)/15)$
 $Pcm = C + (Si/30) + (Mn/20) + (Cu/20) + (Ni/60) + (Cr/20) + (Nb/15) + (V/10) + 5B$
 Melted and manufactured in the USA, ISO 9001-2000 certified (#12443-0) by SRI Quality System Registrar (#0985-09). PED 97/23/EC Compliant.
 DIN 50049 3.1 B/EN 10204 3.1 B(2004) compliant. For ABS grades only. Quality Assurance certificate No. 03-MMPQA-182
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