

Project Number:	188,321	Customer:	Welders & Presses	TSM:	M. Roman
Date Received:	05 March 2018	Location:	Chesterfield, MI	RSM:	G. Schnabel
Report Date:	22 March 2018	Customer ID:	108347	P.O. Number:	

- •The results published within this report relate only to the items tested
- •This report shall not be reproduced except in full without written approval of the issuing authority
- Unless otherwise specified, all tests are performed and evaluated to the most current version of their standards

Sample Source:	Customer supplied one sample for testing	7.	
			v
Sample Description:	Steel Part.		
Disposition of Samples:	Samples returned to Customer		
•	Attention: Shawn Harman, 27295 Luckino Drive, Chesterfield, MI 48047		

Test(s) Requested:

Specification	Specification	Specification	Specification
ASTM B117: Neutral Salt Spray			
ASTM D7091: Film Thickness			

Process Information: Current

	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7	Stage 8	Stage 9	Stage 10	Stage 11
Operation	Immersion	Immer./Rinse	Immersion	Immer./Rinse							
Chemical-1	GC S5690	Water	GB 24T	Water							
Parameters-1											



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ASTM B117: Neutral Salt Spray

					240 I	Hours					
Start Date: 09 March 2018						Completion Date: 22 March 2018					
Sample ID Parts	SCRIBE. MEA	AN CREEPAGE C PERPENDICULA	Mean Arithmetic REEPAGE MEAS ALCULATED FR AR MEASUREMI D1654)	ROM ACROSS	ASTM D610/D714: Rust/Blister Field Rating	ASTM D7091: Film Thickness (mil's)					
					Steel	Part					
1	0.0	0.0	0.0	10	9P/8F	1.1-1.2					



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				Field Ratin	ng Key-Blister and Rust Ratings					
	Blister	Density			Rust	Ratings				
ASTM	I D714	ISO 4	628-2		ASTM D61	0			ISO 4628-3	
Rating Letter	Rating	Rating Number	Rating	Rust Grade	Percent of Surface Rusted	I	isual Examp	les	Deset Cuada	
n/a	None	0	None	Rusi Graae	(Ranges)	Spot	General	Pinpoint	Rust Grade	
n/a	n/a	1	Very Few	10	≤ 0.01%	10	10	10	Ri 0	
F	Few	2	Few	9	>0.01% to 0.03%	9S	9G	9P	Ri 1	
M	Medium	3	Moderate	8	>0.03% to 0.1%	8S	8G	8P		
MD	Medium Dense	4	Considerable	7	>0.1% to 0.3%	7S	7G	7P	Ri 2	
D	Dense	5	Dense	6	>0.3% to 1.0%	6S	6G	6P	Ri 3	
	Blister Size			5	>1.0% to 3.0%	5S	5G	5P		
ASTM D714	ISO 4628-2	D.		4	>3.0% to 10.0%	4S	4G	4P	Ri 4	
Rating Number	Rating Number	Rat	ing	3	>10.0% to 16.0%	3S	3G	3P		
10	0	No Blistering	0 mm	2	>16.0% to 33.0%	2S	2G	2P		
n/a	S1 ·	Requires M	agnification	1	>33.0% to 50.0%	1S	1G	1P	Ri 5	
8	S2	Pinpoint	0-1 mm	0	> 50.0%	. 0	0	0		
6	S3	Small	1-2 mm							
4	S4	Medium	2-3 mm	Note: Key sei	Note: Key serves only as a reference. When evaluating for blistering and rusting, samples must					
2	9.5	Large	3-5 mm	compared to the photograph standards provided by each method.						
0	S5	Very Large	>5mm							



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	Scribe Rating Key									
Scribe Ratin	gs Numbers	Representative Creepage From Scribe								
ASTM D1654	ISO 4628-8	"One-	sided"							
Mean Rating Number	Corrosion Grade	Millimeters	Inches							
10	0-None	0	0							
9	1-Very Slight	Over 0 to 0.5	Over 0 to 1/64							
8	2-Moderate	Over 0.5 to 1.0	Over 1/64 to 1/32							
7	3-Moderate	Over 1.0 to 2.0	Over 1/32 to 1/16							
6	4-Considerable	Over 2.0 to 3.0	Over 1/16 to 1/8							
5	5-Severe	Over 3.0 to 5.0	Over 1/8 to 3/16							
4		Over 5.0 to 7.0	Over 3/16 to 1/4							
3		Over 7.0 to 10.0	Over 1/4 to 3/8							
2	>5	Over 10.0 to 13.0	Over 3/8 to 1/2							
1		Over 13.0 to 16.0	Over 1/2 to 5/8							
0		Greater Than 16.0	Greater Than 5/8							
S	Spot Creepage	Isolated Creepage that Encompasses Less Tha 25% of The Scribe								