

MSi Testing & Engineering, Inc.

Your Source for Metallurgical Testing and Failure Analysis

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TESTING CERT #0510-01

SAMPLE IDENTIFICATION

Quantity	Sample I.D.
8	See Below

TEST RESULTS *

Salt Spray Testing

Sample I.D.		Hours	Corrosion Observations
KS Tool	16 mm Combination	A	96 Rust at Ends and Lettering
			196 Rust at Ends and Lettering
	B	96 Rust at Closed End and Lettering	
		196 Rust at Closed End, Lettering and Edges	
	15mm/17mm Flare Nut	C	96 Rust at Ends
			196 Rust at Ends and Lettering
D		96 Rust at Ends and Lettering	
		196 Rust at Ends, Lettering and Edges	
China	5/8" Combination	E	96 Rust at Closed End
			196 Rust at Closed End with Few Spots at Lettering
	F	96 Rust at Closed End	
		196 Rust at Closed End and Edges	
	15mm/17mm Flare Nut	G	96 Rust at End, Flats and Lettering
			196 Rust at End, Flats, Edges and Lettering
		H	96 Rust at End, Flats and Lettering
			196 Rust at End, Flats, Edges and Lettering

* Testing performed in accordance with ASTM B117 per client request.

Respectfully Submitted,

MSi Testing & Engineering, Inc.

Robert J. Bulthuis

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Manager – Metallographic Laboratories

RJB/s/ E-document



KS Tool – 16mm Combination Wrenches After 196 Hours of Exposure



KS Tool – 15mm/17mm Flare Nut Wrenches After 196 Hour of Exposure



China - 5/8" Combination Wrenches After 196 Hours of Exposure



Snap-On 15mm/17mm Flare Nut Wrenches After 196 Hours of Exposure