

**AUTHORIZED TESTING INC.**

RIVERSIDE, CALIFORNIA USA

**CERTIFICATE OF COMPLIANCE & TEST REPORT - SEAMLESS CYLINDERS**

Manufactured under U.S. Department of Transportation

**CYLINDER DESCRIPTION AND DESIGN CRITERIA:**

Specification: DOT-3AL

Cylinder Size: 7.25in./ 184mm O.D. x 28.346in./ 720mm Long

Minimum Volumetric Capacity: 732 in.<sup>3</sup> (12L)

Drawing No.: JXML345N-3Rev.1

Service Pressure: 3000psig / 207bar

Test Pressure: 5000psig / 345bar

Minimum Wall: 0.5in. / 12.7mm

Calculated Stress @ TP: 31574psig / 218N/mm<sup>2</sup>**MANUFACTURING PROCESS:**

Construction: Hot forming shoulder and neck on the open end of an aluminum seamless impacted shell.

**MATERIAL AND HEAT TREATMENT:**

AA6061 Heat treatment, quenching, and artificial precipitation aging treatment to a "T6" temper.

Quantity: 300

**REPORT DETAILS AND MARKINGS ON CYLINDERS:**

Test Date: 05-2024

Serial Number Range: WN 5671 thru WN 5970 Inclusive

Heat No. or Code: 230517H3

Identifying Symbol: M 0814

Lot Numbers: NE/231~NE/232

Markings:

DOT-3AL3000 XXXXXX M0814 WN 05  24 SEFIC

Inspector's

Mark:

**ShangHai Eternal Faith Industry Co.,Ltd.****LOCATION:No.6598,HuTaiRoad,BaoShan District,Shanghai,China****CONSIGNED TO:**

I hereby certify that I have determined that cylinders described on this report comply with the requirements of U.S. Department of Transportation 3AL.

**Remarks:**Signed: Li De Qing 

Li De Qing

Authorized Testing Inc.

Date: May 28, 2024

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Serial Number Range: WN 5671 thru WN 5970 Inclusive

Cylinder Size: 7.25in./ 184mm O.D. x 28.346in./ 720mm Long

**RECORD OF CHEMICAL ANALYSIS OF MATERIAL FOR CYLINDERS**

Heat and/ Code No.	Type of Analysis	Chemical Analysis for 6061 Aluminum												
		Cu	Si	Fe	Mn	Mg	Zn	Ti	Cr	Pb	Bi	Other		Al
												each	total	
230517H3	Ladle	0.278	0.662	0.343	0.123	1.03	0.0436	0.029	0.094	0.0018	0.0014	<0.05	<0.15	97.3
V40	Check	0.302	0.6122	0.333	0.1226	1.0031	<0.0336	0.031	0.089	0.001	0.0008	≤0.05	≤0.15	97.356

Material Manufacturer: Jiangsu Asia-Pacific Ansindar Aluminium Co., Ltd.

The above analyses have been verified to comply with material authorized by the specification.

Signed: Li De Qing   
Li De Qing

Authorized Testing Inc.

Date: May 28, 2024

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## RECORD OF PHYSICAL TESTS OF MATERIAL FOR CYLINDERS

**Type of Heat Treatment: Heat treatment, quenching, and artificial precipitation aging treatment to a "T6" temper.**

Lot No.	Sub-lot No.	Cylinders Represented Serial Numbers			Yield Strength		Tensile Strength		Elongation % in 2 inch	Bend Test Per ASTME290
					psig	N/mm <sup>2</sup>	psig	N/mm <sup>2</sup>		
NE/231	NE/231	WN 5671	thru	WN 5870	47560	328	52490	362	21.5	Pass
					47705	329	52635	363	22.0	
NE/232	NE/232	WN 5871	thru	WN 5970	46835	323	52635	363	22.0	Pass
					46980	324	52345	361	21.0	

Signed: Li De Qing   
 Li De Qing

Date: May 28, 2024  
 Authorized Testing Inc.