

Jeff Clark

From: Goshorn Kenneth [kenneth.goshorn@volvo.com]
Sent: Thursday, September 23, 2010 1:10 PM
To: Jeff Clark
Subject: FW: Ring measurements

From: john.lahrman@us.mahle.com [mailto:john.lahrman@us.mahle.com]
Sent: Monday, September 20, 2010 3:35 PM
To: Goshorn Kenneth
Subject: Ring measurements

Ken,

I did a print-screen on the relevant portion of the data - otherwise the file size is way too big. See below:

Microsoft Excel - M-2279_raw_data								
File Edit View Insert Format Tools Data Window Help								
A12 Cylinder Number								
A	B	C	D	E	F	G	H	I
ALL MEASUREMENTS MUST BE IN ENGLISH U								
Piston Ring Measurement Data								
12	Cylinder Number	R1	R2	S1	S2	T1	T2	Intertel
13	Top Ring:	Gauge Diameter		4.8750	Bore Diameter		4.8750	
14	Gap, Inch	0.0200	0.0220	0.0210	0.0200	0.0240	0.0240	0.0240
15	Tension, Lbs. C.D.	13.3	13.1	13.4	13.3	11.7	11.9	11.1
16	Axial Width (across flats), Inch	15 deg	0.1217	0.1217	0.1216	0.1216	0.1217	0.1217
17		90 deg	0.1217	0.1217	0.1217	0.1216	0.1218	0.1217
18		180 deg	0.1217	0.1216	0.1216	0.1216	0.1218	0.1217
19		270 deg	0.1216	0.1217	0.1217	0.1216	0.1218	0.1217
20		345 deg	0.1217	0.1217	0.1216	0.1216	0.1217	0.1217
21	Radial Thickness, Inch	15 deg	0.1876	0.1860	0.1881	0.1886	0.1844	0.1839
22		90 deg	0.1885	0.1863	0.1886	0.1873	0.1848	0.1850
23		180 deg	0.1883	0.1868	0.1874	0.1861	0.1845	0.1851
24		270 deg	0.1875	0.1869	0.1877	0.1861	0.1850	0.1851
25		345 deg	0.1873	0.1865	0.1887	0.1880	0.1847	0.1849
26	Keystone Drop, Inch	15 deg	0.0912	0.0910	0.0915	0.0916	0.0918	0.0917
27		90 deg	0.0910	0.0913	0.0913	0.0916	0.0919	0.0919
28		180 deg	0.0905	0.0910	0.0915	0.0911	0.0917	0.0921
29		270 deg	0.0910	0.0910	0.0919	0.0917	0.0916	0.0918
30		345 deg	0.0910	0.0900	0.0915	0.0915	0.0914	0.0918
31	Twist (mm)							
32	(Over 2.54 mm)							
33	Bottom Side Keystone Angle	7°43'	7°35'	7°38'	7°43'	7°40'	7°40'	7°36'
34	2nd Ring:							

Kind Regards,

John Lahrman
 MAHLE Industries, Incorporated
 Product EXpert - Large Bore (ENDT)

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