# JYOTI HEAT TREATMENT PVT LTD.

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## **TEST CERTIFICATE**

Test certificate no:	JHTPL/3.217/20 25	Customer Name:	KAP Engineering
Part no.:	JL511205	Part name:	Rocker Arm Shaft
Date:	2025-06-18	Material:	16MnCr5
ID No.:	-	Qty.:	10000

#### **Parameters**

Parameter	Specified	Actual	
Heat Treatment	СНТ	СНТ	
Surface Hardness	79-84 HRA	80-82 HRA	
Core hardness	29-43 HRC	42 HRC	
Case depth @ OD	0.30-0.60 mm (cut off 550 HV1)	0.60 mm	
Microstructure	Case: Tempered marten site. Carbides in any form are not acceptable.	Case: RA<08%, Fine Tempered Martensite.	
Microstructure	Core: Low carbon tempered Martensite.	Core: Low carbon tempered Martensite.	

#### **Hardness Traverse:**

Distance(mm)	Hardness (HV1)	Distance(mm)	Hardness (HV1)
0.1	743	0.5	590
0.2	720	0.6	551
0.3	690	0.7	534
0.4	654	-	-

### **Surface Hardness of 05 Samples:**

Sample Nos.	1	2	3	4	5
Surface Hardness in HRC	81	82	81	81	82

Remarks: Accepted

Input Shaft Z - 19 BMM11C00560 is cut for micro.

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