

Retained Austenite Inspection Report				
Part Name	NHB bearing	Report No./Report Date	0004/RA/22 Nov 2023	
Part No.	12.7 mm dia.	PO. No./ PO. Date	4600010963/17 Nov 2023	
Customer Name	NHB Ball & Roller Ltd.	Sample Identification (customer reference)	AGO12816A	
Sample Receiving date	20th Nov 2023	Sample inspection Date	21st Nov 2023	
Machine Details				
Machine Name	: X Ray Diffractometer			
Machine Make	: GNR Analytical Instruments- ITALY			
Machine model	: Spider X - Edge			
Software	: GNR SW for acquisition and analytical tasks			
Test Method	: As per ref std ASTM 975			
Machine Setting Parameters				
Anode Tube	: Cr K- Alpha	K beta filter	V	
Wavelength	: 2.291	Exposure time	(300 sec / Acquisition) X 4	
Bragg Angle	α - Fe 156.4degree (211), 106 (200) γ -Aus 130 degree(220), 106 (220)	Calculation	Peak fit, Gauss Algorithm, Effect of possible carbides was not taken in to account	
Collimator	: 2 mm			
Test Location Ball surface 2 points at 90 degree rotation				
Figure: Measurement done on the targeted mark				
Test Results				
Sr. No.	Location/ Sample	Specification in % (as per customer -if any)	Retained Austenite in %	Result
1	Sample 1/Location 1		10.33	Ok
	sample 1/Location 2		10.83	Ok



--End of Report--

Checked By
C.K.Prabhakaran

Approved By
Samarth Jadhav