



→ Hildebrand R (TEC) → checked in myPlant via engine S/N 4599601 → J# C946_1 → PN ref. for DWG / spec comparison taken from this catalogue

Hardenest test



Connecting rode bearing	Main journal bearing	
53HRC	52.1 HRC	1
51 HRC	51.7 HRC	2
53.2 HRC	52.6 HRC	3
52.9 HRC	52.9 HRC	4
51.8 HRC	52.3 HRC	5
51.7 HRC	51.9 HRC	6
52.44 HRC	52 HRC	7
51 HRC	53 HRC	8
52.3 HRC	52.5 HRC	9
52 HRC	50.9 HRC	10
	52.6 HRC	11

→ Hildebrand R (TEC) → all within spec, location of HRC test indentation could be critical for hydrodynamics (submit additional pictures for check!)

Main journal and connecting rod journal

→ Hildebrand R (TEC) → all within spec



Out of round(diameter)		
Main journal	Connecting rode journal	
99.985mm	99.98mm	1
99.98mm	99.98mm	2
99.99mm	99.98mm	3
99.985mm	99.98mm	4
99.99mm	99.98mm	5
99.985mm	99.985mm	6
99.98mm	99.985mm	7
99.98mm	99.985mm	8
99.98mm	99.985mm	9
99.98mm	99.985mm	10
99.98mm		11

Piston pin

→ Hildebrand R (TEC) → pins with Ø54,985 are out of spec, permissible @ own risk!



LEFT BANK	RIGHT BANK	
54.985MM	54.985MM	1
54.99MM	54.985MM	2
54.99MM	54.985MM	3
54.99MM	54.985MM	4
54.99MM	54.985MM	5
54.99MM	54.99MM	6
54.985MM	54.985MM	7
54.985MM	54.985MM	8
54.985MM	54.99MM	9
54.99MM	54.985MM	10

Piston pin clearance in connecting rod

→ Hildebrand R (TEC) → all within nominal range based on DWG, if calculated with piston pin & conrod bushing actual values then all within spec



LEFT BANK	RIGHT BANK	
0.07MM	0.07MM	1
0.065MM	0.06MM	2
0.07MM	0.06MM	3
0.07MM	0.075MM	4
0.07MM	0.07MM	5
0.075MM	0.07MM	6
0.075MM	0.08MM	7
0.07MM	0.07MM	8
0.07MM	0.06MM	9
0.08MM	0.07MM	10

camshaft journal

→ Hildebrand R (TEC) → all within spec



Journal diameter	No
56.91mm	1
56.915mm	2
56.915mm	3
56.915mm	4
56.92mm	5
56.91mm	6
56.91mm	7
56.91mm	8
56.91mm	9
56.91mm	10
56.91mm	11

Check performed on 09.02.2026 by René Hildebrand (TEC)

