ILLUSTRATIVE ASSESSMENT

Should the first batch run?

Worked example for a heat-treated sprocket. All references, readings and owners on this page are fictional.

PART / DRAWING	SAMPLE / LOT	DECISION OWNER
SP-17 / revision C	**S-01 / HT-04**	**Buyer quality lead**

RECOMMENDATION

Hold production release until the low reading is investigated and the buyer's quality lead records a disposition.

WHAT THE AVAILABLE RECORDS SHOW

Record	Reported value	What it establishes
Drawing SP-17 rev C	**56–60 HRC**	Required tooth-flank surface hardness.
Sheet S-01, point 1	**58 HRC**	Within the specified band at this point.
Sheet S-01, point 2	**53 HRC**	Three HRC points below the lower limit.

OPEN ITEMS AND RESPONSIBILITY

Supplier quality	Link the sample and heat-treatment batch. Supply the point map, test method and instrument verification record before retesting.
F. Weng	Compare the retest evidence with revision C and document unresolved discrepancies for the buyer.
Buyer quality lead	Decide whether to hold, request a replacement or issue a written concession. Record the affected lot and approval before release.

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