|  |
| --- |
|  |
| **\*DATE** |  | **\*QUANTITY TESTED** |  |
| **\*ORGANIZATION** |  | **\*PART NUMBER** |  |
| \*HEAT TREAT LOCATION |  | **\*PART NAME** |  |
| **\*NAME OF LABORATORY** |  | **\*BATCH TRACE NUMBER** |  |
| **\*MATERIAL SUPPLIER** |  | **\*Tier 1 PO Number** |  |
| **\*SUPPLIER VENDOR CODE**  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Heat Treat - Induction harden to print per TPS254:**  | SPECIFICATION / LIMITS (min/max) | SUPPLIER TEST RESULTS (DATA) | **OK** | **NOT OK** |
| *\*Per Print and Spec:* Note case depth specification and record actual case depth for each inspection point. |  |  |   |  |   |
| *\*Per Print and Spec: Note surface hardness spec and record final surface hardness as measured.* |  |  |   |  |   |
| *\*Per Print and Spec: Note core hardness spec and record final core hardness as measured.* |  |  |  |  |  |
| *\*Per Print and Spec section 4.5:Actual photo of part sectioned induction pattern must be attached to heat treat cert or this form. Insert Photo of actual induction photo of part section below.*  |  |   |  |   |
| *\*Per print and Spec 2,0: Microstructutre photo for pretreatment must be added on cert to assure martensitic transformation whether it be just core treated or carburized. Insert Microstructure Photo Below:* |  |  |  |  |
| *\*Per Spec 2.1: Assure parts were nomalized per section 2.1 if forging was used.* |  |  |  |   |
| *\*Per Spec:3,2: Assure the correct quenching oil is used per section 3.2 and note oil type under supplier test results.* |  |  |  |   |
| *\*Per Spec 3.3: Assure parts were tempered for stress relief for 275 deg and one hour.* |  |  |  |   |

INSERT PHOTO OF MICROSTRUCTURE AND INDUCTION PATTERN OF SECTIONED SAMPLE HERE

\*Follow CQI-9 for frequency check requirements

Microstructure checks changed from “every batch” CQI-9 Revision 3 to “once per day per furnace” on CQI-9 Revision 4.