

KARTHI D

METALLURGY



Address: NO 101 / AYARPADI VANIYAMBADI,TIRUPATHUR DISTRICT

Mobile No.: 9597943483

E-Mail: dkarthidkarthi828@gmail.com

Total Experience: 2.5 years.

SNAPSHOT

Sl. No	Company's Name	Company's Profile	Tenure	Roles
1	STELLANTIS - PSA AVTEC, HOSUR	Manufacturer of Engine and Gear box	Nov – 2023 to still working.	Metallurgist

EDUCATIONAL CREDENTIALS

- Diploma in Mechanical Engineering – 86 % (2021-2023)

Carrier Highlights: PSA AVTEC POWERTRAIN LIMITED – STELLANTIS:

Company's Profile: PSA AVTEC POWERTRAIN LIMITED is a part of STELLANTIS & Manufacturer of Power Transmission (Engine & Gearbox assembly). These powertrain Transmission will cater to the domestic market needs and global automotive needs of STELLANTIS.

Responsibilities- Metallurgist - Quality:

- ⇒ Team Lead – Metallurgical laboratory.
- ⇒ Responsible for Inhouse Heat Treatment parts (SQF), Phosphating, Laser Welding & Incoming Powertrain parts Quality inspection.
- ⇒ Handling various testing activities which include Rockwell, Brinell, Vickers hardness testing, Effective case depth inspection, Microstructure analysis, Chemical composition analysis, macro etching and Grain size measurement.

- ⇒ Raw material inspection and Report preparation.
- ⇒ Responsible for Powertrain parts Initial development, PPAP stage Metallurgical parameters confirmation.
- ⇒ Field failures & Inhouse Powertrain parts rejection Metallurgical Analysis.
- ⇒ Responsible and supporting R&D in New product Development in Metallurgical Aspects.
- ⇒ Basic knowledge of automotive quality systems
- ⇒ Handling more than 50 Incoming parts Metallurgical parameters testing like gears, shafts, fork, engine block, engine head crankshaft, camshaft etc. comprises of both ferrous and non-ferrous (Products Manufacturing process like Carbonitriding, Forging, Casting, Sintering etc.)
- ⇒ Having knowledge about heat treatment process like Normalizing, Annealing, Through hardening, Case hardening process.
- ⇒ Responsible for Lab Equipment Calibrations.

Responsibilities-PRE-DELIVERY QUALITY INSPECTOR:

- ⇒ Communicated with production team members about quality issues.
- ⇒ Reported repeated issues to supervisors and other departments, collaborating to identify issues roots and rectify problems.
- ⇒ Evaluated components and final products against quality standards and manufacturing specification.
- ⇒ Dimensional and functional inspection of spur and helical type of gears.
- ⇒ Knowledge of POKA YOKE, PDCA, GD&T, KAIZEN, FMEA.
- ⇒ Process monitoring for lead and profile gears.
- ⇒ Process parameter inspection.

INDUSTRIAL KNOWLEDGE:

- ⇒ QC
- ⇒ QA
- ⇒ SPC
- ⇒ SQC
- ⇒ GD&T
- ⇒ PPAP DOCUMENTS

LAB SKILLS:

- ⇒ Micro structural analysis
- ⇒ Macro examination
- ⇒ Grain size measurement
- ⇒ Micro Vickers Hardness Testing
- ⇒ Grinding Burn Test
- ⇒ Residual Stress Analysis Sample Preparation (Acid etching)

LAB Equipment's Handled (Metallurgy/ Mechanical)

- Metallurgical Microscope
- Vickers Hardness Tester
- Auto Vickers Hardness Tester
- Brinell Hardness Tester – Analog & Semi Digital
- Rockwell Hardness Tester – Analog & Semi Digital
- Boro scope
- Portable Hardness
- Dino lite edge
- Metal Polishing machine
- Spectrometer (AMETEK)
- X-Ray Fluorescence Analyzer
- Density Meter
- Shore Hardness

ACHIEVEMENTS:

- To achieve 100% DRR & OPR with zero rejection out flow.

PERSONAL PROFILE

Date of Birth	-	31-05-2004
Languages Known	-	Tamil, English and (read & write only)
Gender	-	Male
Place	-	Hosur.

I hereby declared that the information furnished above is true to the best of my Knowledge.

DATE:

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