

CASE STUDY 13

(NEW GENERATION POLYMER QUENCHANT)



CUSTOMER DETAILS :

A leading multi-technology automotive components supplier



OBJECTIVES FOR CONDUCTING THE TRIAL

To increase the bath life and mechanical properties of automotive crankshafts.

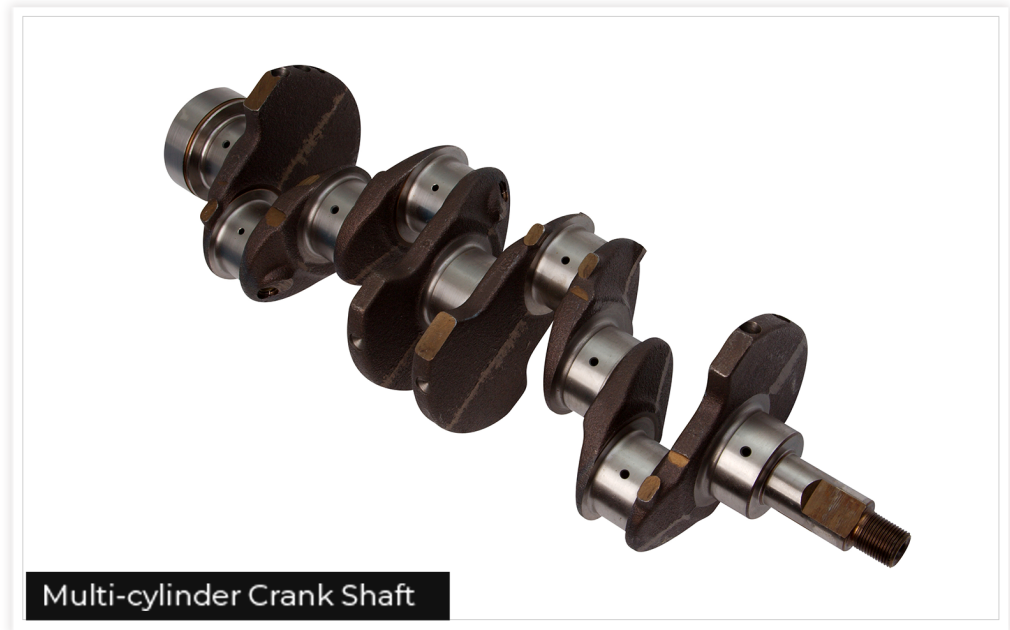


OPERATING / APPLICATION DETAILS:

- ◆ Material Grade: SAE 1541
- ◆ Tank Size: 1500 ltrs
- ◆ Product: Multi-cylinder Crank shaft
- ◆ concentration: 16%
- ◆ Bath Temp: 32°C



COMPONENT VIEW



PRODUCT RECOMMENDED: HIQUENCH P122

TRIAL RESULTS



Consistent hardness pattern observed all over the induction hardened area.



No quench cracks.



Higher hardness depth in induction hardened area will give more service life and increase the performance of the component