



PROJECT OVERVIEW :

On-Site Machining - Damaged Crankpin journal on a MAK 6L32C engine.

TYPE OF VESSEL

BULK CARRIER

PROJECT FACTS

Engine make: MAK

Type: 6L32C

Original Crankpin Diameter: 280.00 mm

Finished Crankpin Diameter: 278.00 mm

SCOPE OF SERVICES

- Reconditioning of damaged fillet radii
- Pre-machining of Crankpin journal
- Annealing of Crankpin journal to reduce high hardness values
- Final machining of Crankpin journal to second undersize (<2.00mm)
- Super polishing of Crankpin journal surface according Engine manufacturer specifications.

Port of Santa Marta Colombia

PROJECT OVERVIEW

Following a critical big end bearing failure while operating in the waters of Colombia, Motor-Services Hugo Stamp, Inc. (MSHS) was commissioned by the customer to conduct on-site repairs and bring the vessel back into full operation in the shortest amount of time. MSHS technicians equipped with tools to perform on-site machining services were dispatched in under 24 hours.



Damaged crank pin journal

ON-SITE REPAIR

Following assessment of the damage, the crankpin journal was found to have areas with high hardness values of above 650hB and a number of cracks were detected. The crankpin journal was machined to eliminate the cracks and the fillet radii were restored. Annealing was used to normalize the high hardness to acceptable hardness values of <350hB as specified by the engine manufacturer.

ABOUT MSHS

MSHS in partnership with Metalock Engineering Germany GmbH offers on-site machining services to critical breakdown situations or when the equipment cannot be shipped to a workshop due to size, weight or location restrictions.

PROJECT OVERVIEW:



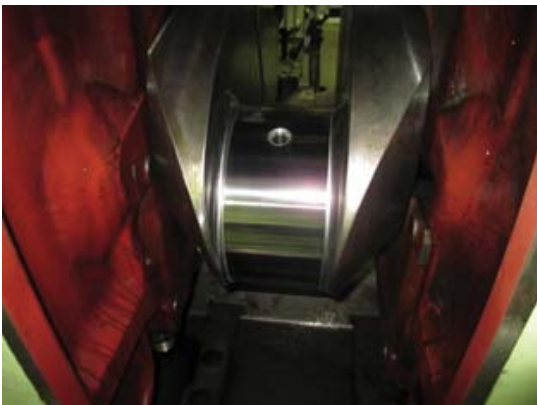
High hardness areas after machining



Set up of annealing tools



Result after annealing process



Final Crankpin journal after Super polishing

Motor-Services Hugo Stamp, Inc. (MSHS) is the authorized distributor and service center for most of the world's major diesel engine and turbocharger manufacturers and is proud to operate under ISO 9001:2000 certification. Through innovative products and services, MSHS specializes in the testing, maintenance, repair, and overhaul of diesel engines, turbochargers, water jets, and filtration systems. Factory-trained service engineers and technicians are on 24-hour call providing everything from complete overhauls to laser alignment, engine diagnostics, and video inspections. MSHS maintains an extensive inventory of OEM parts.

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MSHS
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