

ALGARMANI TRADING CORP. "AMG" is a well known private company founded in 1972 by Ali Mohammed Algarmani and sons. Head office is located in Sana'a, Yemen, and owned by Algarmani family with activities in different business fields.



Aden Repair Shop "ARS" has been established since 2001 in Aden with highly qualified engineers. It provides all types of engineering, fabrication maintenance and services. The shop equipped with the best machines and tools for all repairing services requirements

The Following are some of our successful stories in maintenance:

Customer: Sana`a Power Station Deutz Engine

Problem:

Break in the liner housing (between water chamber & oil chamber)



Solutions:

1. Checkup the required body to specify the proper metal spray products.
2. Cleaning the body from all blemishes before metal spray.
3. Metal spray the proper products.
4. Machining to the required measurements.
5. Last point: Checkup if there is any crack after machining.



Challenges:

- Work done once the block with all parts are assembled on the engine except the crank shaft and two pistons only.
- Long diameter of liner housing.
- Cast iron welding.

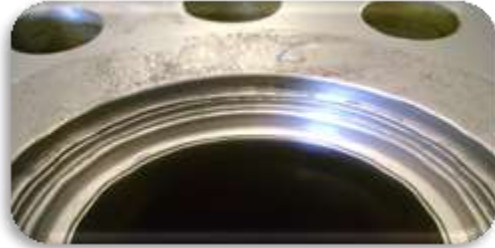
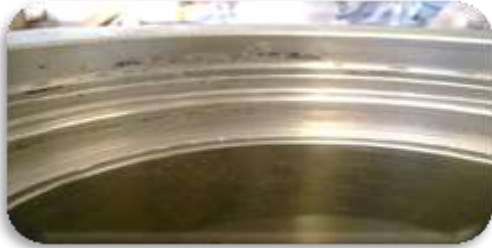


Notes:

- **Repairing days:** 14 days
- **Working place:** working done at side.

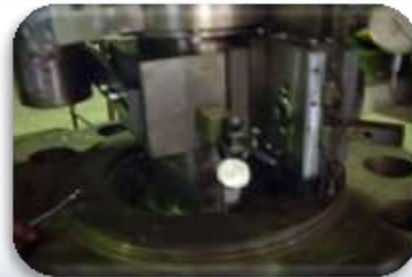
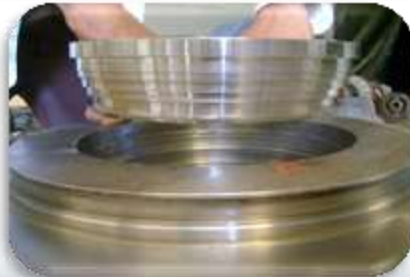
Customer: Yemen LNG GAS Valve

Problem: Leaking of Gas& fuel from the valve side



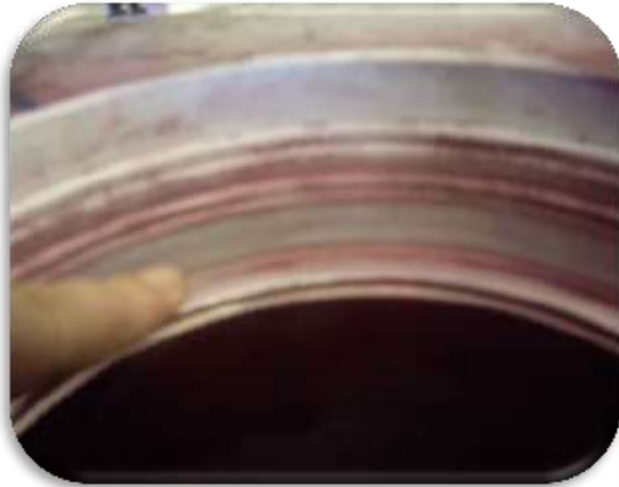
Solutions:

1. Grinding the surfaced oil and blemishes before metal spray.
2. Crack test for the required area.
3. Choosing the proper Metal spray products with the manufacturer structures.
4. Metal Spray.
5. Machining to the required measurements.
6. Crack test the required area.
7. Last point: Assemble all parts and then press it to 350 bar.



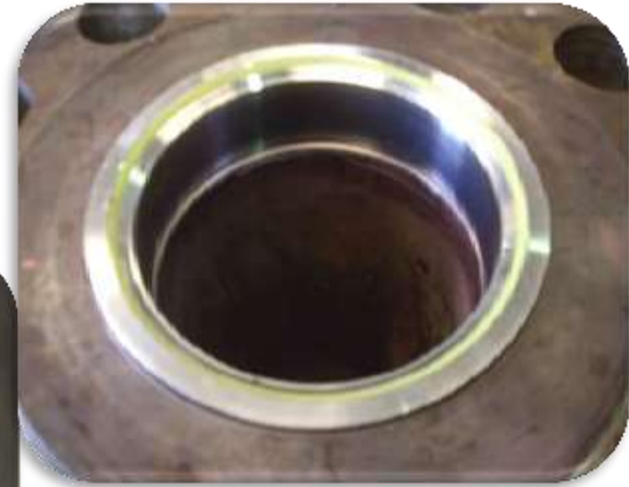
Notes:

- **Repairing days:** 12 days.
- **Working place:** working done in Aden Repair Shop.



After Crack Test

After Metal Spray



After Machining

Result:
Successfully running from the first revolution.

Customer: Canadian Nexen Petroleum Yemen Ruston Engine

Problem:

Over size liner housing



Solutions:

1. Record the present measurements before machining (ovoid shape).
2. Set the machine on 1" .
3. Cover all holes such as water & oil paths to avoid blemishes entry.
4. Machining to the required measurements.



Notes:

- **Repairing days:** 7 days per engine.
- **Working place:** working done at side.



Result:
Successfully running from the first revolution.

Problem:

Cracks in the cylinder head



Solutions:

1. Crack test for the cylinder head.
2. Mark the cracks and determine their measurements.
3. Cleaning the body from all blemishes by grinding.
4. Specify the proper metal spray products.
5. Metal spray the proper products.
6. Grinding to the required measurements.
7. Last point: Assemble all parts and then check water pressure & leakage.



Notes:

- **Repairing days:** 24 continuous hours (emergency case).
- **Working place:** Working done on the ship.



Result:

Successfully running from the first revolution.

Customer: Canadian Nexen Petroleum Yemen Alternator Shaft

Problem:

Friction in bearing seat (Wear)



Before Repair

Solutions:

1. Crack test for the cylinder head.
2. Mark the cracks and determine their measurements.
3. Cleaning the body from all blemishes.
4. Specify the proper metal spray products.
5. Metal spray the proper products.
6. Machining to the required measurements.
7. Last point: Do balancing for the alternator shaft.

Notes:

- **Repairing days:** 4 days per rotor.
- **Working place:** Working done in Aden Repair Shop.



After Repair

Result:

Successfully running from the first revolution.