



Qatar Turbo Times

THE OFFICIAL DIGITAL NEWSLETTER OF GULF TURBO SERVICES
(A GROUP COMPANY OF MAN ENERGY SOLUTIONS SE)



GTS: WORKING BEYOND THE ROTATING MACHINES



It has been a privilege for the Gulf Turbo Services Team to have had such an extraordinary response on our first edition "Gulf Turbo Services Newsletter"! For this, we would like to thank you all sincerely, especially to all our esteemed partners. Your overwhelming response encourages us to happily go that extra mile!

With this newsletter, we would like to showcase the second GTS milestone achievement - supporting one of our esteemed customers in Qatar under the title "GTS : Working Beyond Rotating Machines".

Qatar is a place where various operations and activities from oil exploration to separation extend over vast square kilometers, many of which are operated and managed by one of our most important local customers. Looking back in history, Qatar first took full control of all oil and associated gas operations already in 1974, also the same year, the first development was drilled.

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RISING ABOVE THE PANDEMIC



For a general process understanding, in short summary the raw associated gas separated from different stages is compressed to 400 pounds per square inch and sent further along to the Stripping Plant after dehydration in the field dehydration units. The oil is de-watered in settling tanks and then routed via storage tanks to main oil line pumps. Each station pumps the oil to the Booster Station where the pressure is boosted for further onwards transportation by pipeline to Mesaieed on the east coast of Qatar.



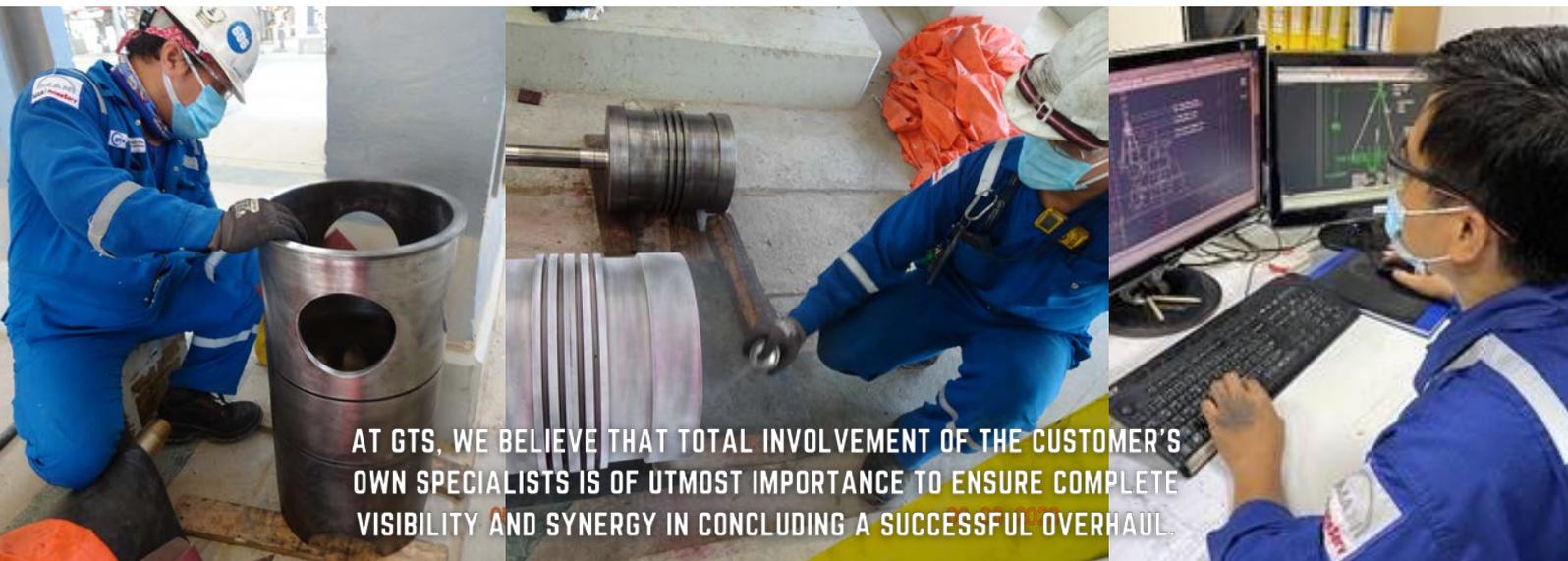
Supporting this process, GTS has successfully carried out the overhauling of Triethylene Glycol (TEG) offgas compressors, which are reciprocating compressors. The TEG offgas compressors are part of the Glycol dehydration unit in the oil field. The purpose of a glycol dehydration unit is to remove water from natural gas and natural gas liquids. When produced from a reservoir, natural gas usually contains a large amount of water and is typically completely saturated or at the water dew point. TEG is used by the oil and gas industry to "dehydrate" natural gas. It is necessary to dry natural gas to a certain point, as humidity in natural gas can cause pipelines to freeze, and create other problems for end users of the natural gas. Therefore effective working of the TEG offgas compressors is pretty important to keep things freezing up, even in a hot place like Qatar.

Whilst the world was struggling with the outbreak of the COVID-19 pandemic, GTS was called upon to ensure the trouble free operation of two high pressure SIAD reciprocating compressors as a part of a regular maintenance programme to single handedly support this esteemed client during this critical, but routine, inspection and overhaul, which occurs after every 4000 hours of operation.

For this overhaul, GTS deployed its experts to completely dis-assemble the unit and subject all its mechanical parts to detailed inspection in order to determine which out of tolerance parts would need to be replaced. Such parts include the crankcase, crankshaft, main bearings, connecting rods, crossheads & crosshead pins, cylinders, liners, flywheel & other pneumatic parts. Mechanical clearances of all moving to stationary parts were critically measured and examined to ensure the correct original specifications could be maintained. Calibration checks of all measuring instruments and devices was also included. The most critical parts were of course the stage-1 and stage-2 highly stressed reciprocating parts, namely the piston, piston rod, cylinder liner, oil scraper rings, intermediate and main rod packings and last, but not least, the suction & discharge valves. Here the customer's witnessing and sign-off of each stage was as important as the actual work itself. At GTS, we believe that total involvement of the customer's own specialists is of utmost importance to ensure complete visibility and synergy in concluding a successful overhaul.

GTS IS PROUD TO HAVE HAD THE OPPORTUNITY TO SUCCESSFULLY SUPPORT THIS ESTEEMED CLIENT BY PROVIDING UTMOST ASSURANCE FOR CONTINUED SMOOTH OPERATION OF THEIR MACHINES VIA ATTENTION TO DETAIL DURING THE SITE WORK ITSELF AND ALSO VIA DETAILED REPORTING OF FINDINGS, MEASUREMENT REPORTS AND RECOMMENDATIONS.

The details recorded during the inspection, assessment and re-assembly records will assure the continued trouble free operation and traceability of all actions implemented for future reference as well.



AT GTS, WE BELIEVE THAT TOTAL INVOLVEMENT OF THE CUSTOMER'S OWN SPECIALISTS IS OF UTMOST IMPORTANCE TO ENSURE COMPLETE VISIBILITY AND SYNERGY IN CONCLUDING A SUCCESSFUL OVERHAUL.



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