

Indigenous Hydrocracking Catalyst CAN 15 – The Commercial Story

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Saudi Aramco Riyadh Refinery operates a Single Stage Recycle Hydrocracking Unit operating at a high conversion per pass. The feed to the unit is a mixture of straight run Vacuum Gasoil and De-Mineralized Oil from a Solvent Deasphalting Unit. The uniqueness of the feed is that the DMO is extremely heavy with its 90% point above 700°C. Saudi Aramco have joint developed with JGC C&C a tailored catalyst CAN-15 for use in this service.

This paper will essentially talk about the first commercial application of the CAN-15 catalyst. This catalyst has been partially loaded along with essentially regenerated catalyst (to the tune of 80%) at Riyadh Refinery and has been successfully operated for over 2 years of operation. The paper will talk briefly of the Hydrocracking Unit , CAN-15 catalyst, the loading strategy used to mitigate the risks of first commercial usage and the operating data for the current cycle. CAN-15 catalyst has been successfully commercialized and the yield structure for the current cycle exceeds expectations.