

Catalyst & Technology

February/March 2003

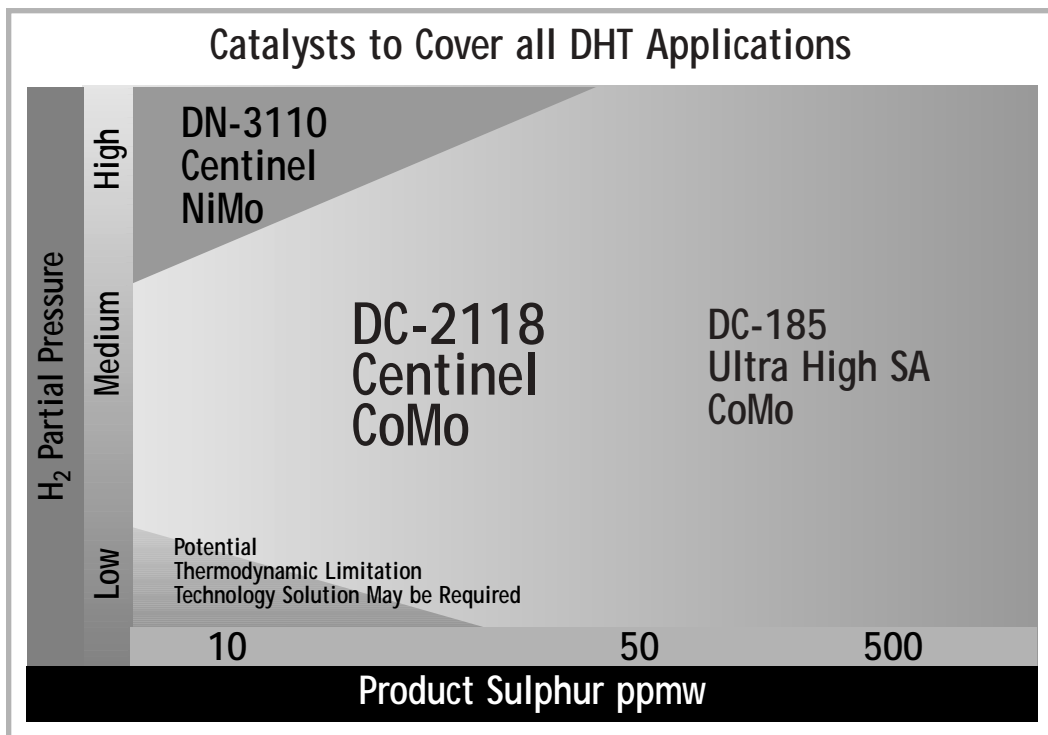
News

Criterion's CENTINEL DC2118/DN3110:

Meeting Refiner's Current and Future Distillate Hydrotreating Requirements

The approach of legislated diesel fuel specifications in all regions of the world has led to the evaluation of existing and revamped distillate hydrotreating units. CRITERION's catalyst portfolio offers a solution for all DHT processing requirements.

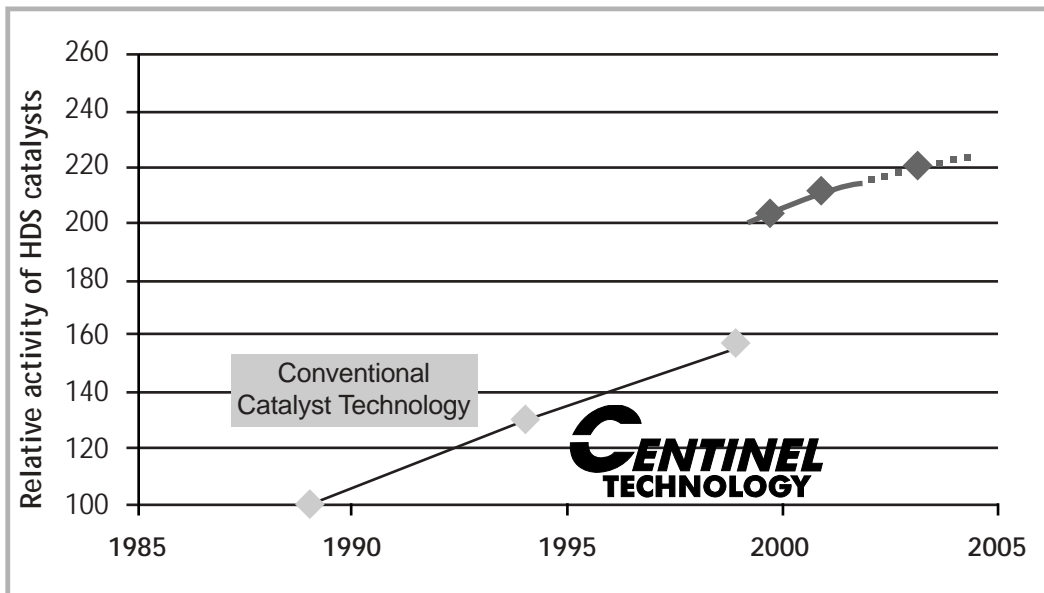
Criterion's DHT Catalysts - Reliable Products for Every DHT Solution



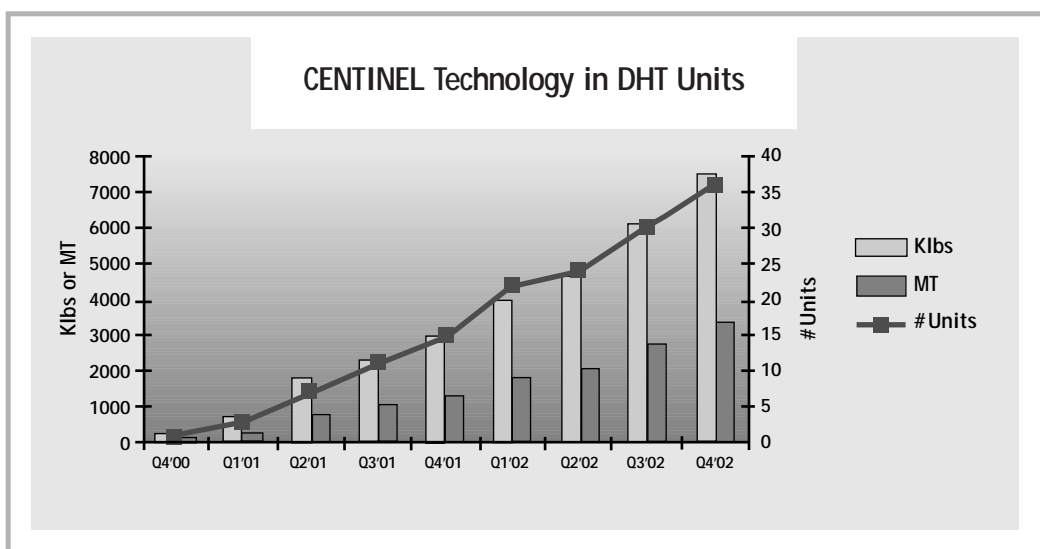
Many refiners' have selected CRITERION's latest technology, CENTINEL catalysts DC-2118 and DN3110 as the cornerstone for their ULSD production strategy. Introduced just two years ago, close to 4 million tons (8 million pounds) of DC-2118 and DN3110 have been installed in over 35

distillate hydrotreaters around the world. Depending on the unit severity and product requirements, CRITERION's DC-185 - high surface area, low density, cobalt molybdenum catalyst is also an excellent choice to meet product specifications at reduced overall fill costs.

CENTINEL DC2118/DN3110: Provides the Boost Needed for ULSD



CENTINEL Technology: Quickly Accepted/Widely Used/Commercially Proven

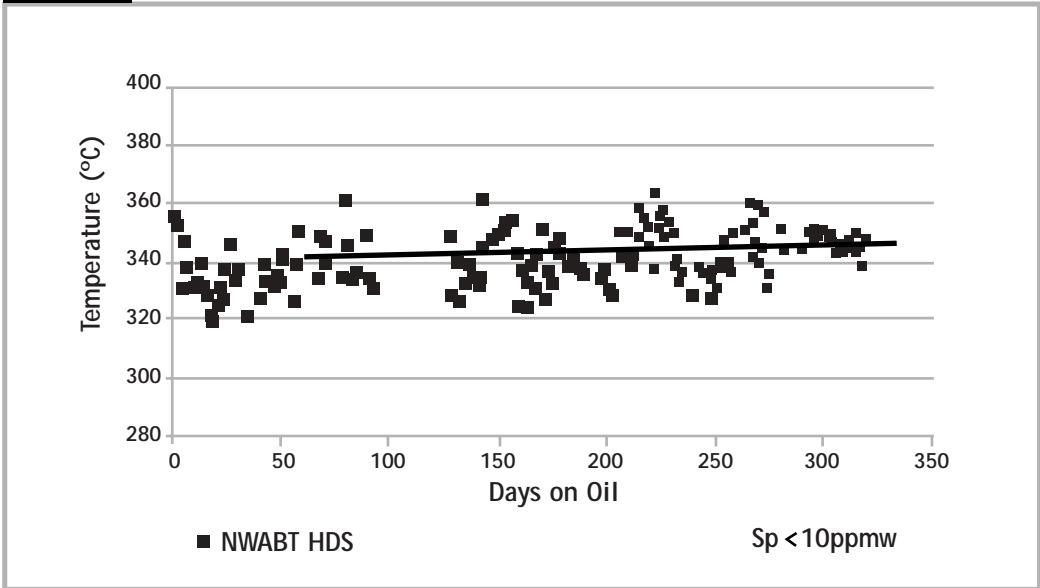


Data from two of many commercial cases is shown below.

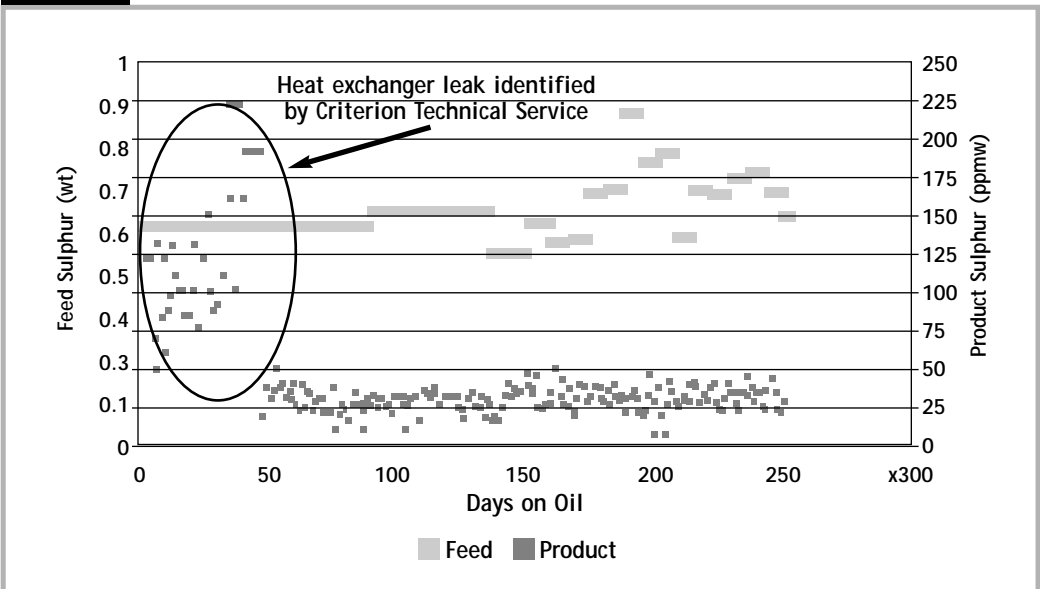
Case 1 is a German refiner whose unit was revamped from producing 400ppmw to - 10ppmw product sulphur in order to meet 2003 legislated specifications. CENTINEL DC2118/DN3110 is providing stable operation.

Case 2 is a former Soviet Union refiner whose unit was revamped to produce 50ppm product sulphur. A leaking heat exchanger at the start of the cycle was identified by CRITERION's Technical Service and subsequently repaired, leading to stable, on-specification performance.

Case 1



Case 2



Important:

All information contained in this document is considered accurate at the time of the testing, based on the equipment, and specific conditions and other limitations during the testing process. It is being furnished upon the express condition that the user will make its own assessment to determine the accuracy and applicability for the user's particular purpose.

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