



UOP HYDROPROCESSING SOLUTIONS

Meet Stringent Product Specifications

UOP Refining Technology
Market Solutions



UOP HYDROPROCESSING SOLUTIONS

Meet Stringent Product Specifications

Refiners are under pressure to meet increasingly stringent product specifications, including improved cetane and smoke point. UOP's latest generation HC-470LT hydrocracking catalyst can be used in a variety of flow schemes to help produce maximum yields of distillate or naphtha products, while also helping to meet these more stringent specifications.

Description

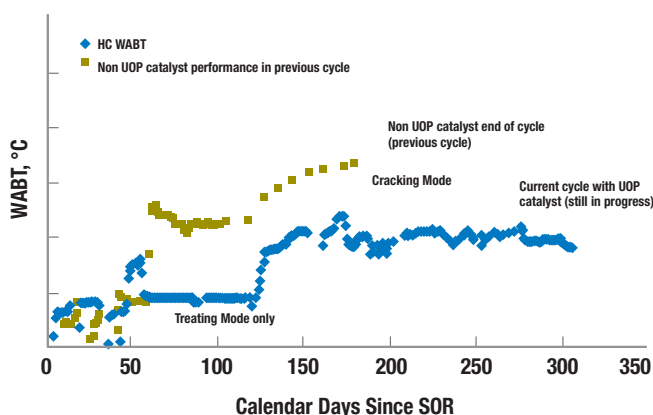
UOP's latest generation HC-470LT hydrocracking catalyst can be used in a variety of flow schemes to help produce maximum yields of middle distillate or naphtha products, while helping to meet more stringent product specifications.

Application

HC-470LT catalyst is designed to improve yields and saturation. It not only provides excellent hydrogenation and higher diesel cetane, but it also provides high selectivity toward distillates. Due to its unique design features, it also provides better nitrogen tolerance and stability, optimizing the cycle length between treating and cracking catalysts to maximize overall benefits.

Figure 1 shows the robustness of the HC-470LT catalyst using Canadian synthetic crude with an end point greater than 1,300°F and total nitrogen greater than 3,000 wppm. The competitor catalyst experienced a less than six-month cycle length using this same feed.

Figure 1 – Hydrocracking Catalyst (Hc-470Lt) Average Bed Temperature



For more information

For more information please contact your UOP representative or visit us online at www.uop.com.

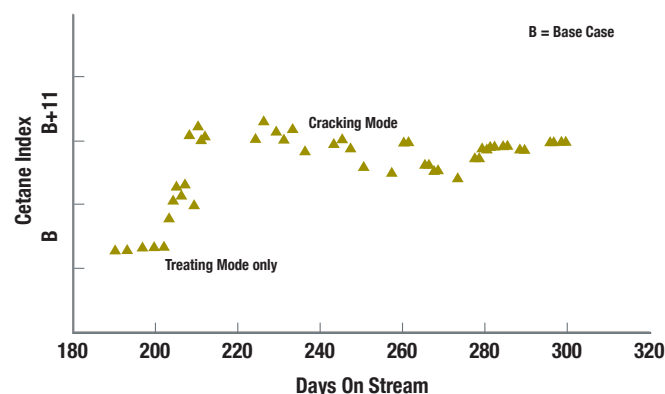
UOP LLC, A Honeywell Company

25 East Algonquin Road
Des Plaines, IL 60017-5017, U.S.A.
www.uop.com

For optimum performance, UOP's HC-470LT catalyst is loaded stand-alone or stacked with other catalyst systems, which can provide higher volume swell, better cold flow properties, lower light ends make and longer cycle lengths to help meet the refiner's specific objectives.

Figure 2 shows the super-saturation capability of this catalyst considering that diesel quality has been met even with a highly-aromatic feed and low conversion operation.

Figure 2 – Cetane Index



Experience

UOP HC-470LT hydrocracking catalyst was introduced in 2013 and has been successfully commercialized in several types of services and configurations, including light cycle oil hydrocracking, Canadian synthetic crude upgrading and mild hydrocracking. This versatile catalyst can help refiners meet stringent product specifications while helping maximize product yields.



The information in this document should not be construed as a representation for which UOP assumes legal responsibility, or an authorization or recommendation to practice a patented invention without a license.

UOP7192a
June 2016
Printed in U.S.A.
© 2016 UOP LLC. All rights reserved.

