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POWER GENERATION

Getting closer to your business

CALTEX HELPS IMPROVE OIL DRAIN INTERVAL ON HIGH BMEP STEEL PISTON ENGINE USING HDAX® 9300 SAE 40 ENGINE OIL

HDAX® 9300 SAE 40 engine oil achieves target drain interval of 2000 hours with uninterrupted operation

THE CHALLENGE

Umar Spinning Mills Ltd. use a high BMEP Jenbacher Type 6 steel piston engine at their power plant running on natural (sweet) gas.

Modern engines are designed for very low oil consumption, resulting in a significant stress on the oil.

They wanted to achieve an improved performance and reach 2000-hour oil drain interval.

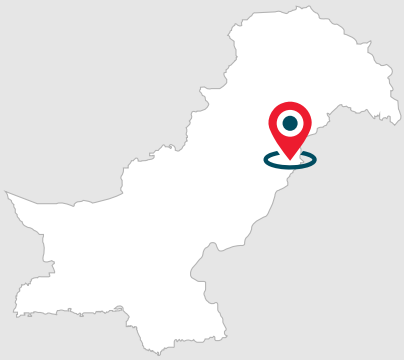
COMPANY:
Umar Spinning Mills (Pvt.) Limited

LOCATION:
Lahore – Punjab, Pakistan

APPLICATION:
Gas Engine

EQUIPMENT:
INNIO Jenbacher JMS 624 Type H, steel piston engine

SOLUTION:
HDAX 9300 SAE 40 and Caltex LubeWatch



THE RESULTS

Since implementation of HDAX 9300 SAE 40, the customer was able to achieve their target drain interval of 2000 hours with un-interrupted operation, and they were able to successfully repeat the result over a similar drain interval. Additionally, they experienced no breakdown or maintenance issues.

The Caltex LubeWatch oil analysis programme results demonstrated that the in-service oil had excellent viscosity control, Base Number (BN) retention, extremely low wear metals, and good oxidation and nitration values during its service life.

Achieved 2000 hour oil drain interval target

Delivered excellent viscosity control

Zero oil related breakdowns

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SOLUTIONS DEPLOYED

HDAX 9300 SAE 40

HDAX® 9300 is formulated with premium base oils which contain extremely low sulphur, nitrogen and aromatics. HDAX® 9300 prevents sludge formation on cylinder liners, which could interfere with oil flow and lead to higher oil consumption.

It is approved by Jenbacher for use in various engine models using natural gas.

Caltex LubeWatch oil monitoring programme

Caltex LubeWatch oil analysis enables you to track the performance of fleet vehicles and equipment that is the lifeblood of your business. Through regular oil analysis, vehicle and equipment life and oil replacement intervals can be optimised and lubricant needs can be identified, and the changing environment within the equipment can be monitored.

THE RECOMMENDATION

Caltex recommended HDAX 9300 SAE 40 which carries INNIO Jenbacher approval for this type of engine to ensure reliable operation.

Caltex experts recommended implementing the LubeWatch oil analysis programme, analysing oil samples every 250 hours (first cycle) and every 500 hours (second cycle).

"We have been using Chevron Lubricants for many years at Umar Spinning Power Plant. Recently we purchased latest INNIO Jenbacher 624 (H-Type) engine running on natural sweet gas, and we decided to use Chevron HDAX 9300 on this engine. On successful completion of targeted 2000 hours drain interval twice, we have seen excellent results as expected from Chevron products, all parameters remained well within limits, that include Viscosity, TAN, TBN, wear metals, Oxidation, Nitration, and differential pressure across lube oil filter. Additionally, during these 4000 hours we have not seen any kind of trouble on engine like knocking / detonation or any other problem related to lubricant.

We have excellent experience and rely on Caltex products to achieve reliable power plant operation. We are very happy with the product performance and services provided by Chevron team. Based upon our experience, we strongly recommend Chevron Pakistan Lubricants as a highly reliable lubricants' supplier.



Zaheer Ahmed,
Manager Utility & Power,
Umar Spinning Mills Ltd

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