

Mobilgear™ 600 XP 320 helps DP (Dubai Ports) World Sokhna extend oil drain intervals by more than 100%*

ODI Extension Study, DP World Sokhna, Egypt

Situation

DP World Sokhna lubricates the Flender gearboxes in its quay crane, rubber tired gantry and mobile harbor crane with Mobilgear™ 600 XP 320 gear oil. The company maintained oil drain intervals of 12 months in some gearboxes and 18 months in others based on the equipment builder recommendation.

One of the key objectives of DP World Sokhna engineering team is to reduce the man-machine interface in general and especially in locations similar to subject gearboxes while simultaneously reducing operating costs and increasing equipment availability.

Recommendation

DP World Sokhna engineering team worked with ExxonMobil field engineering team, to identify optimal oil drain intervals for its gearboxes. After conducting Mobil ServSM Lubricant Analysis (MSLA), ExxonMobil engineers recommended the continued use of Mobilgear™ 600 XP 320 while extending its oil drain intervals.

DPW Sokhna Engineers and ExxonMobil Field engineers also recommended the continued utilization of MSLASM in order to continuously monitor oil life and equipment performance achieving the results mentioned in the section below.

Benefits

The use of Mobilgear™ 600 XP 320 gear oil, as well as the implementation of routine Mobil ServSM Lubricant Analysis, has helped DP World Sokhna extend its gearboxes oil drain intervals by at least 100% as detailed below:

- Mobilgear™ 600 XP 320 was drained after
 - 26 months for quay crane trolley gear box
 - 28 months for the quay crane hoist gearbox
 - 38 months for quay crane boom and gantry gearboxes
 - 36 months for the rubber tired gantry gearbox
 - 30 months for mobile harbor crane hoist gearboxes
- In addition, DP World Sokhna has experienced increased equipment availability, reduced operational and labor costs, and less waste oil** disposal.



Potential annual savings

44 K USD



180 Hrs equipment uptime



13 K liters less waste oil



96 fewer man-machine hours

*This Proof of Performance is based on the experience of a single customer. Actual results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.

**Visit mobilindustrial.com to learn how certain Mobil-branded lubricants may provide benefits to help reduce environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

2023 ExxonMobil. All trademarks used herein are trademarks or registered trademarks of ExxonMobil Corporation or one of its subsidiaries.