

Mobilith SHC 460 and Mobilux EP1 Prevents Unscheduled Downtime and Reduces Lube Consumption

**Accessory equipment and Mitsubishi 3/4 Continuous mills
China Steel Corporation
Taiwan**

Objective

To reduce maintenance cost and increase productivity

The main granulation equipment of 4th blasting furnace is supplied by RASA Japan. The conveyer bearings require lubricants with excellent thermal stability and water resistance ability.

In the Hot Strip Mill Department, the Mitsubishi 3/4 Continuous mills sustained extreme heavy loads and serious cooling water wash-out on work roll bearings during rolling procedure. The previous lithium EP grease was easily washed out and softened by cooling water contamination, resulting in high consumption and ineffective lubrication. The softened grease easily drains out, causing pollution to the working brackets and floor.

Solution

The Mobil Engineers found Mobilith SHC 460 suitable for the lubrication of bearings as it is able to provide excellent bearing protection under high temperature and serious water contamination.

The previous lithium EP grease used on the Mitsubishi 3/4 Continuous mills had to be replaced with Mobilux EP1, which contains extreme-pressure lithium hydrostearate grease synthesized with new additive technology. The absence of lead enables it to resist severe wash out and heavy load on work rolls.

Result

Mobilith SHC 460 demonstrated excellent thermal stability and water resistance preventing unscheduled downtime of equipment.



CSC also found that Mobilux EP1's was not easily softened due to its outstanding water resistance and water mixing stability.

Benefits

Mobilux EP1's exceptional lubrication saves lube consumption by 11%. Labour expenses are also cut and the environment was protected from pollution of grease drain out.

