



Proof of Performance

595NC Open Gear Lubricant at Dexing Copper Mine on a TZ-WK35 Shovel





Background Information

End-user Name: Jiangxi Dexing Copper Mine (Largest copper mine in Asia)

Application: Open Gear Lubrication **Equipment:** TZ WK-35 Shovel

Lubricant: Petron OGL 595NC

Manufacturer:



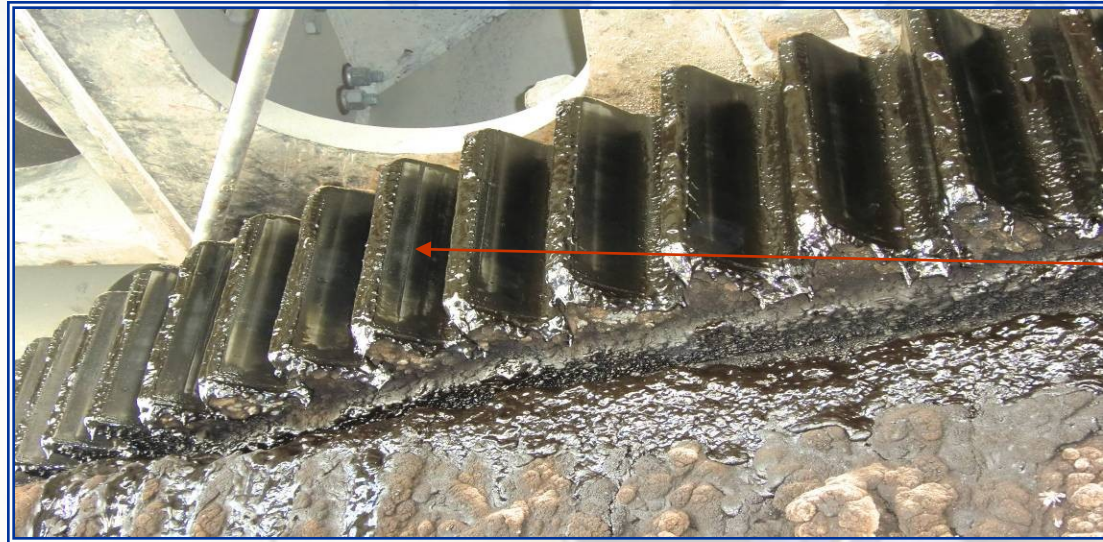
Before 595 NC OGL:

TZ WK-35 Shovel was continually exposed to heavy dust, high moisture and abrasive overburden resulting in a “sandblasting effect” to the dipper handles and crowd pinions. The product in use had to be applied every 10 minutes to ensure an adequate lubricant film on the gearing and also to prevent balling up from the severe moisture and dusty conditions. The monthly consumption was high (approx 700~800Lt per month). Protection provided to the exposed areas of the dipper handles, pinions, swing gears was inadequate. Also considerable housekeeping problems due to excessive run off and build up.

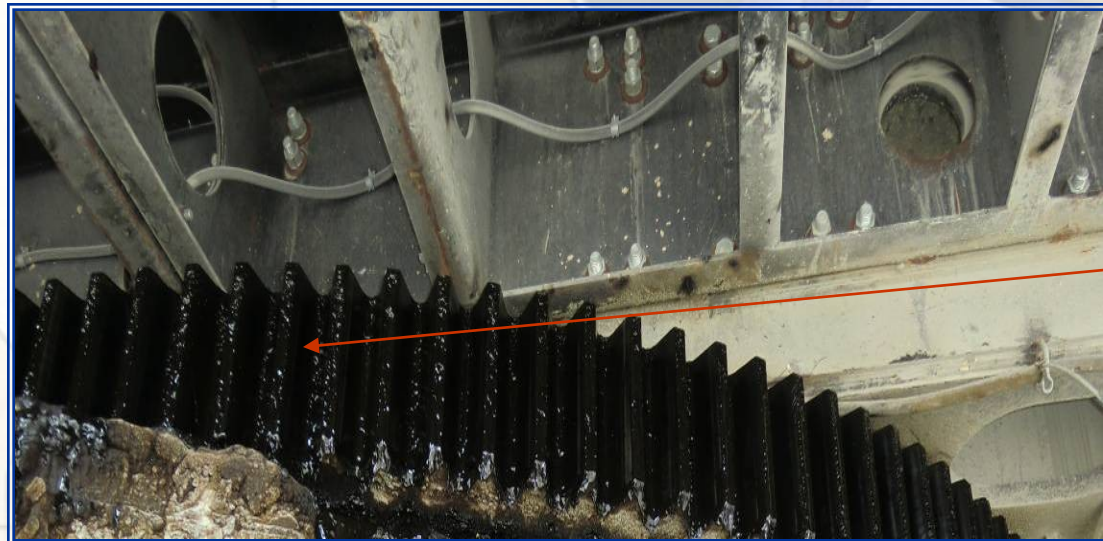
Petron Proposal:

Petron recommended OGL 595NC for a trial on the same type of shovel under similar conditions. With the OGL 595NC the timer was extended from 10 to 15 minute intervals. Petron supplied regular on-site visits communicating with the Dexing shovel engineers team on lubrication appraisal to maximize and optimize the performance of the OGL 595NC.

Results & Site Photos



GL400



595NC

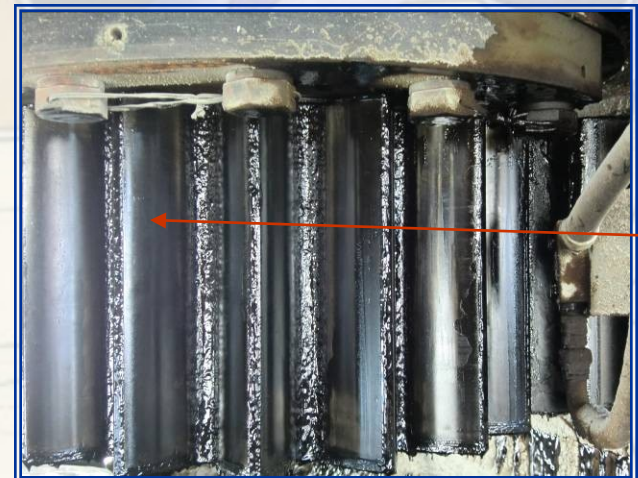
Result & Site Photos

After OGL 595 NC:

- **Petron's OGL 595NC** provided complete coverage of the applications on the dipper handles, pinions & swing gears.
- Lubricant film of **OGL 595NC** was strong and smooth without build up and also showed a good dustproof performance.
- The hourly consumption on the same type of shovel was a 33% reduction compared to the competitor.



GL400



595NC

Benefits to Dexing

Petron OGL 595NC showed the following benefits to Dexing Copper Mine,

- Smooth tenacious lubricant coverage and film/ protection to top and mesh sides of gearing, rack and pinions under heavy dust and moisture conditions.
- Reduction in lubricant consumption.
- Reduction in lubricant handling costs.
- Extended component life.
- Regular field support from Petron.

Summary

Due to the excellent performance of OGL 595NC and monthly consumption savings, Petron was awarded the OGL business on a total of 12 shovels (There are a total of 13 shovels on site).