

# CALTEX ADVISORY OPTIMISES COMPRESSOR OIL USAGE AT INDONESIA CEMENT PLANT WITH CALTEX CETUS PAO 46

Caltex Cetus PAO 46 replaces OEM genuine oil in Ingersoll Rand and Atlas Copco compressors



## THE ISSUE

Indonesian cement producer, Pt. Semen Baturaja Tbk, has a total of forty compressors in two plant locations. In Baturaja I, they operate 20 Atlas Copco oil flooded screw compressors and at Baturaja II there are another 20 compressors from Ingersoll Rand and Atlas Copco.

Both plants were mostly running on OEM genuine compressor oils achieving 8000 hours oil life. The customer was buying three different compressor oils from three suppliers across both plants. It is looking to reduce its operating cost through product consolidation while maintaining similar performance and service interval as the OEM genuine oil.



- COMPANY:** Pt. Semen Baturaja Tbk Indonesia
- LOCATION:** Baturaja Plant II
- APPLICATION:** Compressed air to operate hydraulic and pneumatic equipment at the plant
- EQUIPMENT:** Ingersoll Rand M160-W10 Oil Flooded Screw Compressor
- SOLUTION:** Caltex Cetus PAO 46





## OVER 8000+ HOURS OF OIL DRAIN INTERVAL ACHIEVED IN OIL FLOODED SCREW COMPRESSORS UNDER SEVERE OPERATING CONDITIONS



### THE SOLUTION

The Caltex Advisory team recommended Caltex Cetus PAO 46 compressor fluid, for trials against the OEM genuine oil, and wanted to demonstrate maximum compressor wear protection, good oxidation stability and low acid number performance, besides 8000 hr oil service life.

To monitor and prove this performance, the Caltex Advisory team offered Caltex LubeWatch oil condition monitoring as a value-add service check after every 1,000 hours of operation.



### THE RESULTS

Caltex Cetus PAO 46 successfully completed 8,000+ hours of service with excellent control of wear metals, good oxidation stability and maintained a low acid number. The oil was able to withstand even higher pressure (8.2-10.2 bar) and temperature (110-135 C) operating conditions versus the incumbent oil (7.5 bar, 100 C), while delivering the extended oil service interval.

During the Caltex LubeWatch oil condition monitoring, Caltex Cetus PAO 46 comfortably exceeded service life of 8000 hours. The oil life could be further extended but a hose leakage resulted in shutdown and oil changeover. There was no over-heating or loss of pressure observed during its use.

Pt. Semen Baturaja Tbk is happy with the product performance and has switched all compressors in Plant I and II over to Caltex Cetus PAO 46. This has not only helped reduce operating costs but also provided better inventory management with less product grades to stock



### SOLUTIONS DEPLOYED

#### Caltex Cetus PAO 46

Cetus PAO oil is a premium performance, synthetic compressor oil based on polyalphaolefin technology, containing a rust and oxidation inhibitor system plus anti-wear additives to provide outstanding oxidation resistance and corrosion protection. Advanced technology Cetus PAO minimizes wear under severe operating conditions.

#### Caltex LubeWatch

As you optimize your lubrication program for peak protection and performance, attentive monitoring helps you continue to achieve the benefits. Caltex LubeWatch oil analysis helps you detect potential problems and fine-tune your maintenance practices to extend drain intervals, minimize failures and reduce costs.