

Coal chemical Application



WINSONDA OIL FILTRATION SOLUTIONS

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Coal Chemical Enterprise Mitigates Varnish Potential

Customer

Cnooc Huahe Coal Chemical Ltd., A subsidiary of Chinese oil giant CNOOC producing synthetic ammonia and large grain urea from Coal.

- Mitsubishi Syn Gas compress
- Shell Turbine oil, #46
- 20m³ (20000L)
- Oil life: 3 Years

Problem

Lubricating oil was contaminated that has impact on lubrication performance. Lube test shows high varnish tendency (MPC value) which led to elevated bearing temperature. The machine operated at high risk of outage and trips.



Solution

Winsonda's varnish removal unit (**WVD-II**) was recommended and installed to the reservoir with a flow rate 1200L per hour in June 2020 which is designed to mitigate the varnish potential and improve the cleanliness.



Result

After 30 days purification, client has received a good MPC value in lube test. The temperature of bearing went down and ISO code told the fact that the oil was restored to a clean and healthy level. No need to concerns about the increased temperature at the end of July because suspended sludge has removed and the solubility of oil improved which attributed to varnish on metal surface dissolved into oil.

Date	2020/6/9	2020/7/9
MPC	22.4	2.5
ISO 4406	22/17/13	17/16/13



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