

IS/18
dated --.--.2018

Information Message on PRANA Predictive Analytics and Remote Monitoring System

On --.--.2018, PRANA predictive analytics and remote monitoring system has detected deviation of GBC technical condition in parameter “Gas pressure on the 1st stage discharge (EKH21CP503_XQ01)” (Fig.1).



Fig.1 Gas pressure on the 1st stage discharge

From 13:33 to 13:54, pressure changes on the discharge of the compressor 1st stage, uncommon for GBC operation, were observed, which did not correlate to the rest of GBC performance characteristics. After stabilization at 13:54, the pressure value at the 1st stage discharge became lower (about 5.7-5.9 kgf/cm²) than its nominal value of 6.4-6.6 kgf/cm² (according to the Technical Documentation for the Borsig Z.117054 GBC, 1st stage head pressure is about 3.2 bar of 1st stage suction pressure).

Judging by the nature of parameter value change (from 13:33 to 13:54), the probable cause of the deviation occurred is a procedure of pressure sensor check by pulse line purging, or pressure sensor failure.

It is recommended to:

1. Purge the pulse lines of gas pressure sensor on the compressor 1st stage discharge (EKH21CP503_XQ01).
2. Restore the performance ability of gas pressure sensor on the compressor 1st stage discharge (EKH21CP503_XQ01).
3. In order to improve the quality of recommendations, please provide feedback.

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