**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-1A technical condition in parameter “Diff. pressure at oil filter” (EKH22CP009). Calculation of the regression of this parameter predicts the achievement of pre-alarm setpoint of 80 kPa while maintaining the operating conditions of GBC-1A on --.--.2018. (Fig. 1).

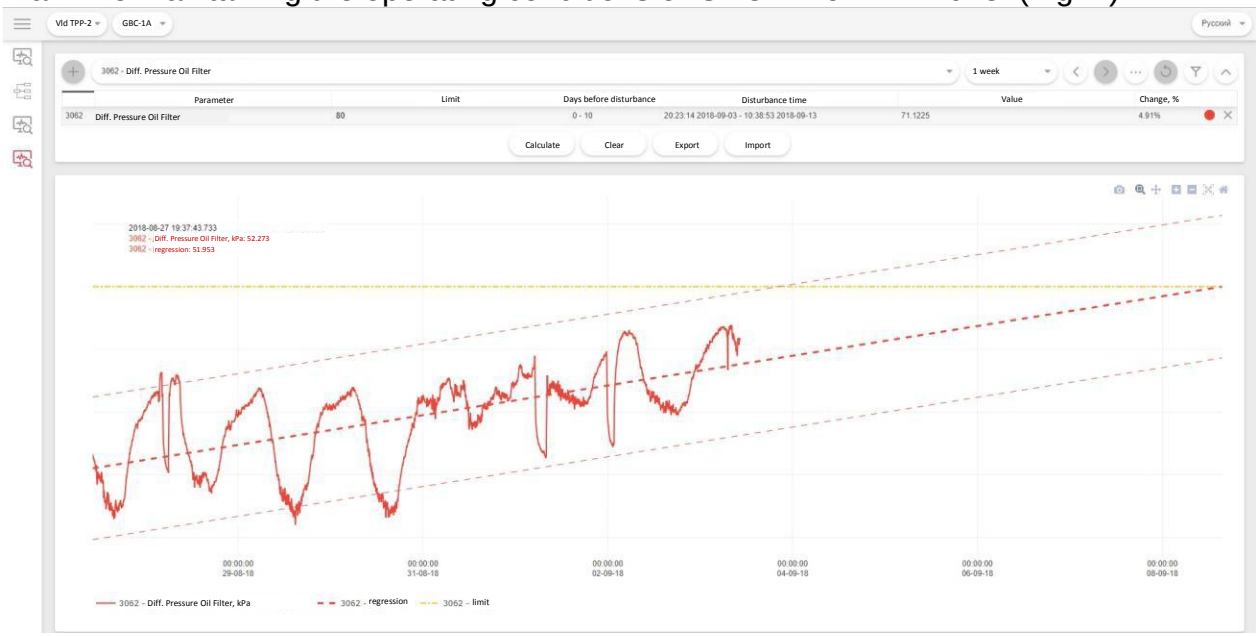


Fig. 1 Differential pressure on GBC-1A oil filter.

When analyzing GBC-1A vibration state from the moment of its putting into operation on --.--.2018, no correlation between vibration of wheel 1 journal bearing (NPS X-axis) and other operation parameters of GBC-1A was revealed. (Fig. 2).

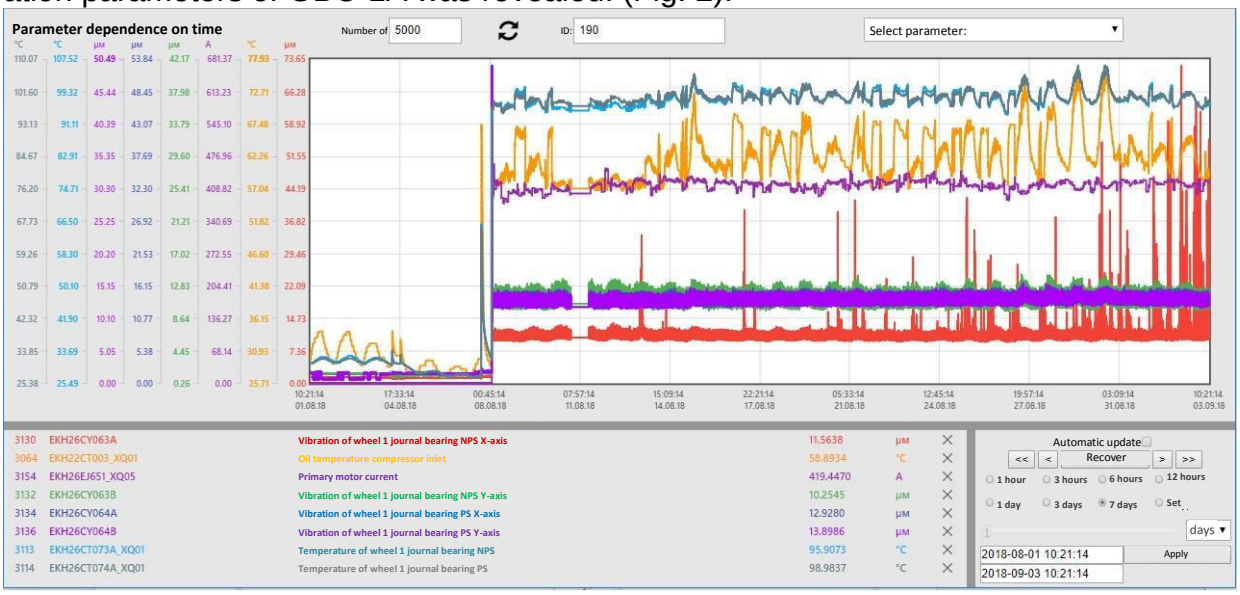


Fig. 2 Vibration state of GBC-1A wheel 1 journal bearing.

Probable cause of such a vibration condition of the wheel 1 journal bearing (NPS X-axis) is the measuring channel failure, which develops over time.

**It is recommended to:**

1. Control the increase in Diff. pressure on the oil filter.
2. Switch over to a backup oil filter at a pressure difference not exceeding setpoints specified by the Operating Manual.
3. Taking into account the developing failure of the measuring channel EKH26CY063A and the emergency setpoint value of 77 μ (according to the setpoint chart), it is recommended to schedule a GBC-1A shutdown in the nearest future in order to check the operability of the measuring channel (check the integrity of communication lines from the sensor to the GBC-1A automatic control system and pull terminal connections). In case of non-recovery of stable readings, replace the vibration measurement sensor.

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