

HONSBERG

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Lubrication monitoring in iron ore processing



Measuring transducer VHS of GHM GROUP

Measuring transducers OMNI-VHS

The application

Immediately after the degradation, iron ores contain undesirable admixtures, so-called gang minerals, f. e. alumina and silica. Since the quality of the iron ore is determined by the absolute content of iron, these gang minerals are removed in the process.

A major part of the processing technology is the crushing and grinding of the iron ore in preparation for subsequent processes. For this purpose used ball mills cause high purchase and operating costs. Operational loss leads to significant financial loss. For a reliable operation of the mills a constant and sufficient supply of the bearings with lubricant is of central importance. The lubricant supply should therefore be monitored with suitable measuring technology.



BENEFITS.

- viscosity-independent operation with up to 40,000 mm²/s possible
- high precision
- on-site display with graphical LCD (OMNI-VHS)
- 2 programmable limit switches
- 1 analog output (4..20 mA)
- suitable for high pressure up 350 bar
- reliable operation under difficult climatic conditions

Our solution

The screw volume meters of the VHS series offer all the prerequisites for reliable lubricant monitoring:

- volumetric measurement principle is independent of the viscosity
- measurement accuracy of only 1% of the measured value
- intrinsic behavior by frequency-setting method
- easy adjustment to the required flow measuring range by seven different versions
- measuring ranges from 140 l / min to 2500 l / min

In this case Jindal SAW Ltd opted for the VHS-032 flow meter with the OMNI-VHS transmitter in tropic design.

At this version the electronics are completely filled with oil so that the penetration of moisture is reliably prevented. This guarantees a reliable operation, even under extreme climatic conditions (high humidity, fast and strongly changing temperatures)

Why did Jindal SAW Ltd decide to buy the solution of GHM GROUP:

Due to the selected device combination, all requirements are met optimally at a very good price-performance ratio.

Our customer

Jindal SAW Ltd manufactures SAW Pipes (Submerged Arc Welded Pipes) and spiral pipes for the energy transportation sector; carbon, alloy and seamless pipes and tubes for industrial applications; and Ductile Iron (DI) pipes & fittings for water and wastewater transportation.



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local view with graphical display – OMNII-VHS.