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Juan Mendoza

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Juan Mendoza is an Industrial Mechanical Engineer, MBA with a specialty in business development. He is an Active Member of the International Council for Machinery Lubrication (ICML) with MLA certification.

Juan has solid experience as a specialist in business development in the areas of lubricant analysis, asset management, condition monitoring and maintenance strategies.

Juan is currently transcending to lead the ALS tribology laboratory in Mexico, creating strategies to incorporate Industry 4.0 tools in the country. He is implementing successful and profitable fluid analysis programs with Movus sensors as a predictive maintenance tool, with sensor monitoring on the one hand and tribological analysis on the other.



"Maintenance 4.0: Implementation of Sensors with AI as a Predictive Maintenance Tool"

There is always an opportunity to improve maintenance strategies, and currently driven by the inertia that Industry 4.0 brings, it is now possible to have a predictive maintenance program with AI.

Incorporating technologies that work with the internet is no longer expensive or difficult. Now we can have sensors at our fingertips as tools in monitoring the vibration, temperature and sound of our equipment and with this, lay the foundations to implement an assertive and profitable maintenance strategy, with the combination of Artificial Intelligence (AI) with sensors monitored from the cloud, providing a unique predictive maintenance solution.

Increasing worker safety is key in the mining industry and a point of constant danger is the inspection and monitoring of dangerous assets. With the sensors, the technician will not have to enter the hazardous area to assess the condition of the equipment.

One of the biggest advantages of using sensors as a monitoring tool is:

- Prevention of equipment downtime
- Faster reactions to preventive maintenance