

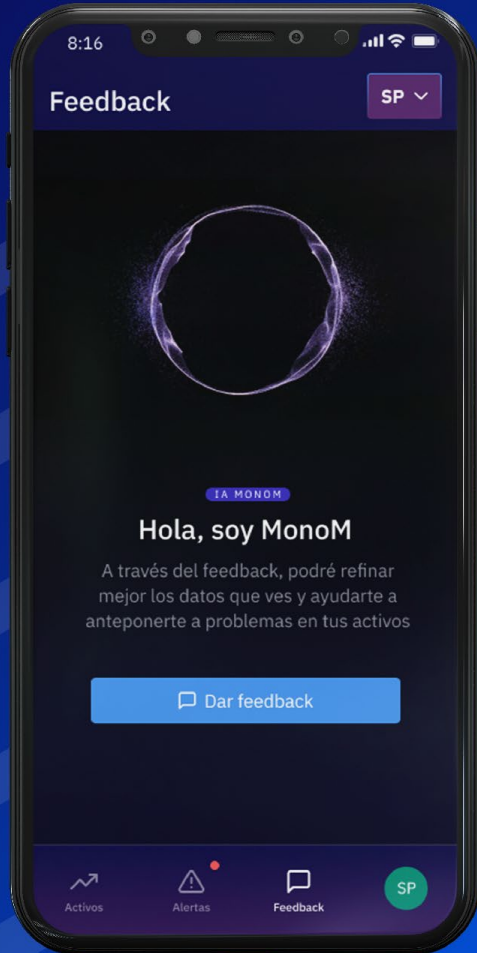


MONOM

by Grupo Álava

**La IA y Soluciones para la optimización de
rendimiento de los parques eólicos**

GIVE FEEDBACK
FROM ANYWHERE



Detección de anomalías



Feedback



Predicción de fallos con IA



Notebook conectado



CustomML



Chatbot



Predicción de fallos con IA



Experimental / Smart Analysis Pdm ☆ ↵

assetList BIL_A009A - reportList 2024-06-26 09:52:59.603466+00 -

- Overview

Analyzed Asset	Asset Severity	Asset Severity Prediction Score
BIL_A009A	HIGH	70%

- Why this score?

Asset Severity

Considering the provided nomenclature, the severity of the potential failure can be classified as HIGH (60L) (score: 0.7). This is due to the consistently high vibration levels in the high-frequency range and reached critical levels, it's likely that the failure is not yet critical.

It's crucial to perform a visual inspection and further analysis, including order analysis and potentially an oil analysis, to confirm the severity and plan appropriate maintenance actions.

> Summary (2 panels)

- Analysis

Asset Severity Prediction Score	Explanation
gear_meshing_issues 90%	Based on the provided data, the most likely nature of the failure is related to the gearbox, potentially due to gear meshing issues. The following are the potential causes and their scores: <ul style="list-style-type: none">• Gear meshing issues (score: 0.9): The high vibration levels in the high frequency range, elevated Oil meshing. This could be due to wear, misalignment, or damage to the gear teeth.• Bearing damage (score: 0.7): While the data doesn't show specific bearing fault frequencies, the high speed shaft.• Shaft imbalance (score: 0.3): Although less likely, shaft imbalance could contribute to the high vibration typically associated with imbalance.
bearing_damage 70%	
shaft_imbalance 30%	
N/A	

Maintenance Recommendations Prediction Score	Explanation
visual_inspection 100%	The following maintenance actions are recommended: <ol style="list-style-type: none">1. Visual inspection of the gearbox (score: 1.0): Perform a thorough visual inspection of the gearbox, lubrication issues.2. Oil analysis (score: 0.8): Analyze the gearbox oil for debris, metal particles, or changes in viscosity.
advanced_vibration_analy... 80%	
oil_analysis 80%	

MacBook Pro

Pilares de su construcción



Estado de
máquina



Resumen
ejecutivo



Modo de fallo



Recomendaciones

- ❖ Contexto
- ❖ Datos de cada activo
- ❖ Ventana temporal
- ❖ Formato de salida
- ❖ Score de confianza
- ❖ Validación independiente

¿ QUÉ TE APORTA?

+30%

CAPACIDAD

45
días


DETECCIÓN
TEMPRANA

-20%

FALSOS
NEGATIVOS



JORNADA ANÁLISIS OPERATIVO DE PARQUES EÓLICOS

 Hotel Elba Alcalá Madrid
C. de Alcalá, 476, 28027 Madrid

3 OCTUBRE
INSCRÍBETE YA



ELENA ABRIL

Lead Data Scientist | MONOM by GRUPO ALAVA

3 OCTUBRE - 17H30

SESIÓN 7: "La IA y soluciones no convencionales para la extensión de vida de los parques eólicos".

PATROCINADORES VIP



COLABORADORES

