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Penulis : **P Paryanto**, S Sulardjaka, Nur Cahyo, Andriyan Cahyono, Belly Rakhmadhansyah (*Corresponding & 1st author*)
Jurnal : *2023 International Conference on Technology and Policy in Energy and Electric Power (ICT-PEP)– IEEE Conference*
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No	Jenis Korespondensi / Kegiatan	Tanggal	Lampiran bukti
1	Manuscript Submission to Conference	14 Juli 2023	Lampiran 1
2	Decision on the manuscript: accepted with revisions	18 Agustus 2023	Lampiran 2
3	Registration	20 September 2023	Lampiran 3
4	Presentation	2 Oktober 2023	Lampiran 4
5	Paper online on IEEE Explore	21 December 2023	Lampiran 5

Semarang, 06.03.2025

Lampiran 1: Manuscript Submission to the IEEE conference – 14 Juli 2023

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Lampiran 2: Decision on the manuscript: Accepted with revisions – 18 Agustus 2023

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Lampiran 3: Registration and Payment – 20 September 2023

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Lampiran 4: Presentation – 2 Oktober 2023



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Failure Analysis of a Cracked Gas Compressor

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Abstract

Document Sections

- I. Introduction
- II. Methodology
- III. Result and Discussion
- IV. Conclusion

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Abstract:

Cracked Gas Compressor (CGC) serves as the vital core of the Olefin plant. However, one of the leading companies in Indonesia, which employs CGC, faces the challenge of high vibration in both low-pressure (LP) and medium-pressure (MP) casings. This phenomenon is very important to overcome, because it may cause losses of thousands and even millions of dollars per day for the Company when there is a system failure. Vibration levels in MP casing have escalated from 13.8 μm to 39 μm , and LP compressor vibration has abruptly risen to 52 μm from 12 μm . Therefore, this study aimed to investigate the underlying causes of this high vibration in CGC. To analyze vibration issue, the Process Information (PI) and System1 software were employed. The result showed that the fouling of the rotor was the primary source of vibration in MP casing, while mechanical damage to rotating parts was responsible for vibration in LP casing. It is recommended to implementation of wash oil injection to reduce fouling and utilization of water injection to reduce compressor discharge temperature.

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