

Trakindo 



EMISSION TROUBLESHOOTING TRAINING CATERPILLAR – DUBAI LEARNING CENTER

Tembagapura, 3 March 2022
Learning & Development
HC & Support Service, Tembagapura
Confidentiality Status **Green**

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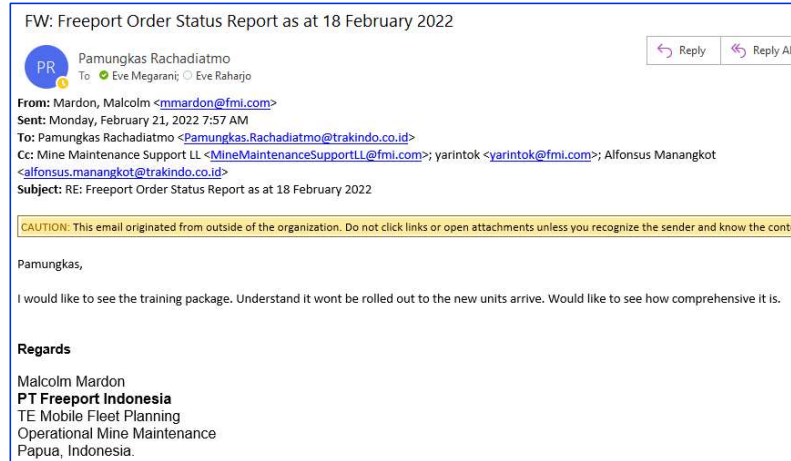
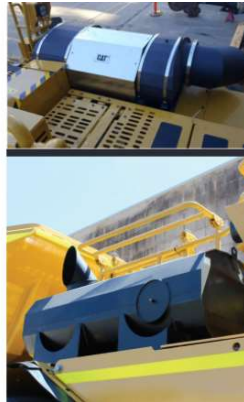


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BUSINESS CASE

1. PTFI UG production increase from 187.5 ktpd in 2022 to 217 ktpd in 2025
2. Greater number of machine produce higher emission, while PTFI are required to align to government emission regulation
3. PTFI purchase new Caterpillar machine with Tier 4F (Euro V) engine. 3 x R2900 ZLK, 1 x 966 NG in July 2022. Estimate sales \$ 4,881,000
4. Current Caterpillar UG truck and loader are attached with Mammoth DPF's (non-Cat) emission reduction system. After success operation of R2900 with Tier 4F engine, PTFI will replace the non-Cat emission reduction system with Caterpillar emission reduction system. Estimate sales \$ 2,856,000
5. Total 2022 potential sales for machine with emission reduction system \$ 7,737,000. This exclude product support
6. Existing machine with diesel particulate filter (DPF) are 33 x R1600H LHD, 7 x 305 Mini Hex
7. Trial plan of Wall Flow DPF solutions on the R1700G, R2900G and AD30
8. Roll-in Cat Rental Machine, 14 x ADT 740 with Tier 4F (Euro V) engine. TBA end of 2022
9. All rebuild engine leaving KKCRC will be emissions tested, start on May 2022

TIER 4F (EURO V) ENGINE EMISSION CAPABILITY



1. Service and maintenance of emission reduction system (CEM and SCR) are new capability.
2. Many critical item in daily service, preventive maintenance and troubleshoot of Clean Emissions Module (CEM) decrease PTFI management confident level on product support
3. Caterpillar provide **free ILT Emission Troubleshooting training** for 2 Trakindo Instructor in Caterpillar Dubai facility. Normal price is \$2,200 / instructor
4. STC TTD propose send 1 instructor to Caterpillar Dubai on July 18 or July 25, 2022. Travel cost est. \$ 4,000 (Airline fare \$1,500; Hotel \$1,000; Meals \$800; Taxi \$700)

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EMISSION TROUBLESHOOTING TRAINING AT CATERPILLAR DUBAI TRAINING CENTER APPROVAL

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