

PT. Permata Industri Jaya Abadi

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TRIAL REPORT

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ❖ SUBJECT | : Thompson Coupling - type TCAE-3 |
| ❖ DBSE min/max 275/300 mm, Max Power@ 1440rpm 127/170 kw/Hp, Max speed 3500 rpm, Max Angle 10 degree, Minimum Angle 1 degree, Max Temperature :120 deg C. | |
| ❖ Location | : PT. Pindo Deli pulp and paper Tbk. / Kerawang mill |
| | ▪ PM10, Thickener Poli-Disc pump |
| ❖ Installation date | : 16/08/2016 |
| ❖ Problems categorize | |
| | <ul style="list-style-type: none">• High vibration• Parts failures – pipes cracking• Misalignment• Very unstable base foundation for machines. |

Replacement process



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Installation process done



Monitoring and Result.

| Report measuring vibration | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------|-------------------------------|----------------------|
| Loc | Pindo 2 | | | |
| Area | PM 10 | | | |
| Machine | Thickener Polidisc Pump | | | |
| Type Coupling | TCAE - 3 | | | |
| Install date | 16/08/2016 | | | |
| | Before using thompson coupling | | After using thompson coupling | |
| Measuring date | 2/8/2016 | | 2/9/2016 | |
| From | MTS Team | | MTS Team | Vibration lower by % |
| motor outboard Horizontal/ M1H | 12.76 | mm/sec | 9.78 | 23 |
| motor outboard vertical / M1V | 19.39 | mm/sec | 12.82 | 34 |
| motor inboard horizontal / M2H | 12.52 | mm/sec | 6.09 | 51 |
| motor inboard vertical / M2V | 40.84 | mm/sec | 26.41 | 35 |
| motor inboard axial / M2A | 49.65 | mm/sec | 22.56 | 55 |
| inboard pump horizontal / P1H | 45.53 | mm/sec | 9.89 | 78 |
| inboard pump vertical / P1V | 41.26 | mm/sec | 8.89 | 78 |
| inboard pump axial / P1A | 27.45 | mm/sec | | |
| outboard pump horizontal / P2H | 21.93 | mm/sec | 9.89 | 55 |
| outboard pump vertical / P2V | 21.61 | mm/sec | 6.25 | 71 |
| outboard pump axial / P2A | 12.38 | mm/sec | | |
| Note : | | | | |
| Problem terbesar pada fondasi dasar dari Mesin yang sangat tidak stabil dan tetap direkomend untuk diperbaiki secepatnya. | | | | |
| Dari hasil pengukuran vibrasi ada penurunan diatas 70% dari nilai vibrasi sebelum dan sesudah menggunakan Thompson Coupling. | | | | |
| Pemasangan dilakukan tetap pada kondisi fondasi yang tidak stabil dan tidak diperlukan proses alignment. | | | | |

Advantages

- ❖ NO Alignment process involve during the installation – faster time!
- ❖ Proven, able to minor vibration (more than 50%) due to misalign machineries
- ❖ Prologue life time for the machines
- ❖ Cut down unscheduled maintenance process and parts failure.
- ❖ Optimize production time
- ❖ Coupling warranty for 3 years.