

PT. Permata Industri Jaya Abadi

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TRIAL REPORT

❖ SUBJECT	: Thompson Coupling - type TCAE-1
➤	DBSE min/max 80/85 mm, Max Power@ 1440rpm 15/22 kw/Hp, Max speed 3500 rpm, Max Angle 5 degree, Minimum Angle 1 degree, Max Temperature :120 deg C.
❖ Location	: PT. Pindo Deli pulp and paper Tbk. / Kerawang mill
	▪ PM9, Condensate Pump no.5
❖ Dated	: 16/08/2016
❖ Problems categorize	
	<ul style="list-style-type: none">• High vibration• Parts failures• Misalignment• Area and machines conditions cause very hard to offer suitable alignment process.

Replacement process



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Installation process done



Monitoring and Result.

Report measuring vibration				
Loc	Pindo 2			
Area	PM 9			
Machine	Condensat Pump no.5			
Type Coupling	TCAE-1			
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 vertical / M1V	1.434	mm/sec	1.181	18
motor inboard horizontal / M2H	3.353	mm/sec	2.87	14
motor inboard vertical / M2V	3.347	mm/sec	2.153	36
motor inboard axial / M2A	3.308	mm/sec	2.623	21
inboard pump horizontal / P1H	5.048	mm/sec	3.631	28
inboard pump vertical / P1V	5.057	mm/sec	2.281	55
inboard pump axial / P1A	4.924	mm/sec	2.502	49
outboard pump horizontal / P2H	3.892	mm/sec	2.408	38
outboard pump vertical / P2V	3.845	mm/sec	2.404	37
outboard pump axial / P2A	3.88	mm/sec	1.931	50

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 1 year.