

LAPORAN HASIL INSPECTION FAN BLOWER 5 UNIT

PT. MULTI SPUNINDO JAYA TBK



DIVISI INDUSTRIAL REPAIR

PT. Intidaya Dinamika Sejati

Vacuum Pump & Roots Blower Specialist

www.intidayads.com





PT. INTIDAYA DINAMIKA SEJATI

INSPEKSI REPORT FAN BLOWER



TANGGAL PENGECEKAN	10 DESEMBER 2025	NAMA USER	Bpk. Rengga
NAMA CUSTOMER	PT. MULTI SPUNINDO JAYA	ALAMAT EMAIL	-
NOMOR PO	-	LOKASI	Sidoarjo
NOMOR SO	-	INSPEKTOR	Josefin

DATA FAN BLOWER

MERK FAN BLOWER BLOWER	STUTTIGART	POWER MOTOR / POLE	132 KW/4 POLE
TYPE FAN BLOWER	CSB 1250/MB1	INPUT VOLTAGE R/S/T	-
SERIAL NUMBER	-	AMPERE	-
APLIKASI	-	NOISE FAN BLOWER	-
DIAMETER PULLEY MOTOR	Direct Coupling	PRESSURE	-
DIAMETER PULLEY FAN BLOWER	Direct Coupling	TYPE/ JUMLAH V-BELT	Direct Coupling
SPEED MOTOR	1484	KAPASITAS OLI	-
SPEED FAN BLOWER	1484	TYPE OLI / VISKOSITAS	-

LAMPIRAN FOTO



Foto Nameplate Fan Blower



Overvie Unit

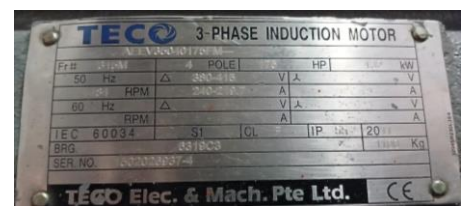


Foto Nameplate Motor

	POSISI MOTOR		Velocity (mm/S)	Enveloped (gE)	TEMPERATURE (°C)
	1	HORIZONTAL NDE	14,54	12,15	33,41
	2	VERTICAL NDE	4,60	-	34,13
	3	AXIAL DE	7,66	-	34,13
	4	HORIZONTAL DE	10,01	3,74	39,05
	5	VERTICAL DE	5,38	-	33,55
	POSISI FAN BLOWER		Velocity (mm/S)	Enveloped (gE)	TEMPERATURE (°C)
	1	AXIAL BLOCK BEARING DE	3,78	-	36,31
	2	HORIZONTAL BLOCK BEARING DE	5,65	2,63	39,27
	3	VERTICAL BLOCK BEARING DE	2,92	-	39,75
	4	AXIAL BLOCK BEARING NDE	6,18	-	37,01
	5	HORIZONTAL BLOCK BEARING NDE	6,19	4,43	45,61
	6	VERTICAL BLOCK BEARING NDE	2,50	-	44,99

KESIMPULAN

- Setelah dilakukan pengecekan berdasarkan analisa spectrum menunjukan pola khas indikasi misalignment pada 1-3x harmonic dan indikasi unbalance = 1x rpm amplitudo tinggi
- Lakukan pembersihan rotor/impeller, penumpukan kerak, dan periksa kelengkapan dan kekencangan baut/bilah.
- Lakukan trim balancing (single atau dual plane sesuai kebutuhan). Ukur ulang setelahnya; targetkan $\geq 50-70\%$ pengurangan pada 1X.
- Lakukan pengecekan alignment
- Lakukan monitoring trend vibrasi dan temperature untuk meninjau kenaikan value vibrasi dan pola spectrum

MENGETAHUI	DI INSPEKSI	MENGETAHUI
 Signed by: 83871907-5B8A-476A-A0F5-23CF4679DF89	 Signed by: CD387176-1262-4301-B844-986287998131	
AHMADI	Josefin	
PRODUCT & SERVICE MANAGER	TEKNIISIAN	PT. MULTI SPUNINDO JAYA

MB 1 SN -

1/1

PT Intidaya Dinamika Sejati/PT INTIDAYA DINAMIKA SEJATI/IDS SURABAYA/MULTI SPUNINDO JAYA TBK

● **Unacceptable**
12 Dec, 2025, 10:40

Criticality
Medium

No description

Reported since
collection
✓

Last collection
10 Dec, 2025

Asset status history

● **Unacceptable**
12 Dec, 2025

MB 1 SN - - F-001 1/1 - Other

Collection date
10 Dec, 2025

Condition monitoring technique
Vibration Analysis

Fault
Other

Severity
⚠ 7 Severe

Created on
12 Dec, 2025

Created by
Iqbal IDS Surabaya

Observation

Setelah dilakukan pengecekan berdasarkan analisa spectrum menunjukan pola khas indikasi misalignment pada 1-3x harmonic dan indikasi unbalance = 1x rpm amplitudo tinggi

Recommended action 1/1 - Other

Action
Other

Action status
Pending

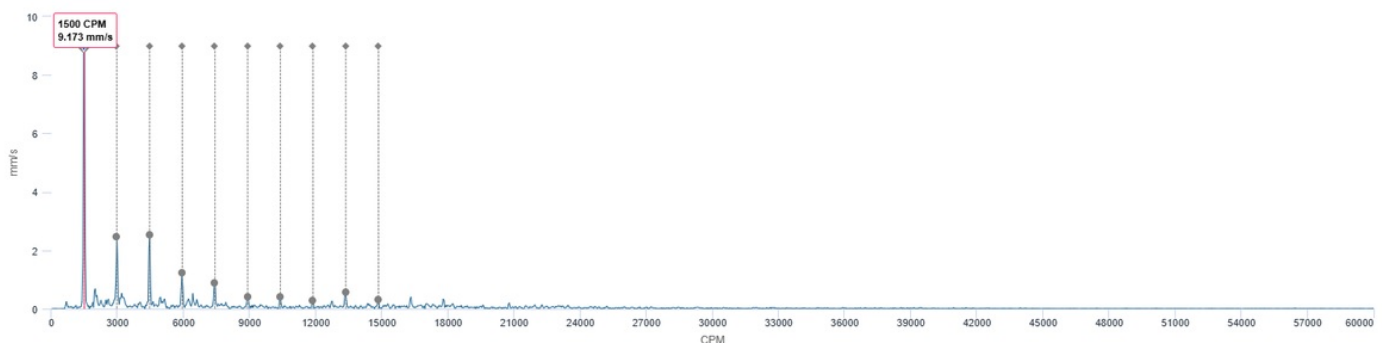
Work order number
-

Recommended due date
10 Jan, 2026

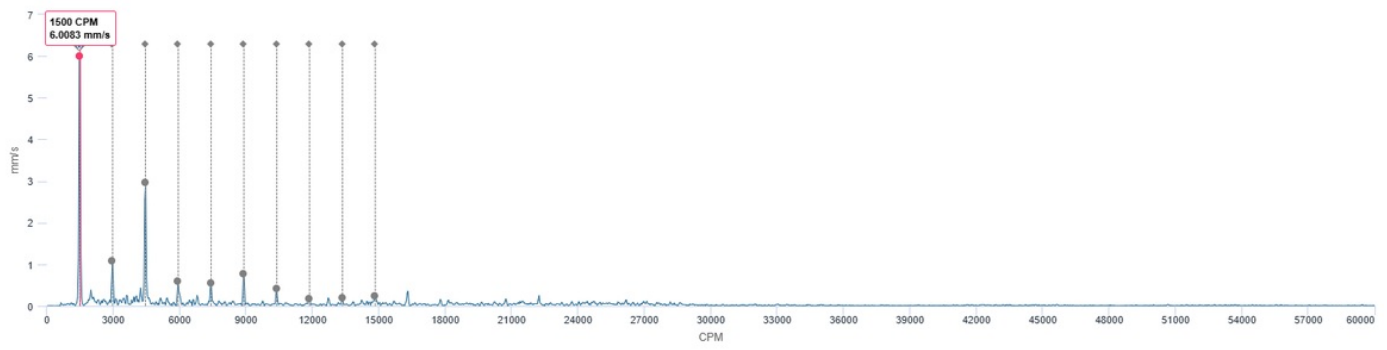
Additional comments

1. Lakukan pembersihan rotor/impeller; penumpukan kerak; dan periksa kelengkapan dan kekencangan baut/bilah.
2. Lakukan trim balancing in-situ (single atau dual plane sesuai kebutuhan). Ukur ulang setelahnya; targetkan $\geq 50-70\%$ pengurangan pada 1X.
3. Lakukan pengecekan alignment
4. Lakukan trend vibrasi pada band sekitar 1X (0,9-1,1X) dan alarm keseluruhan velocity.

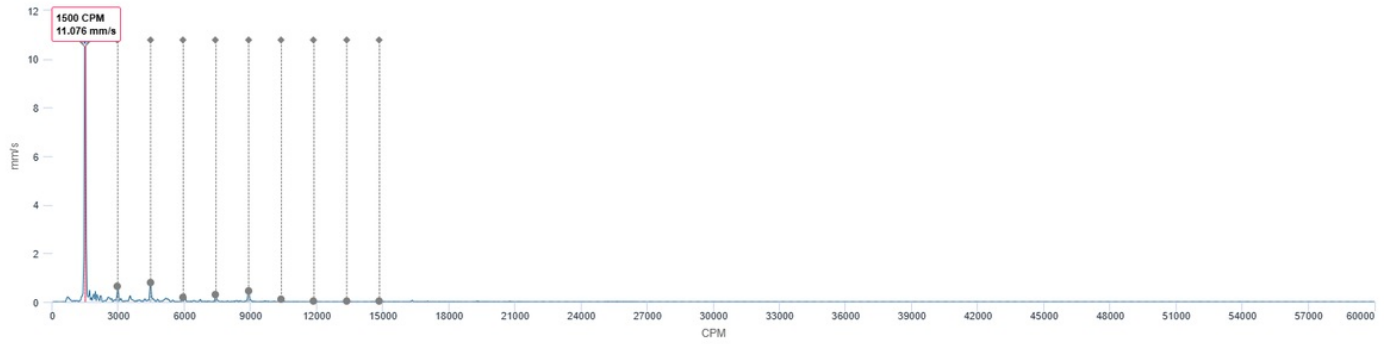
Images - 10



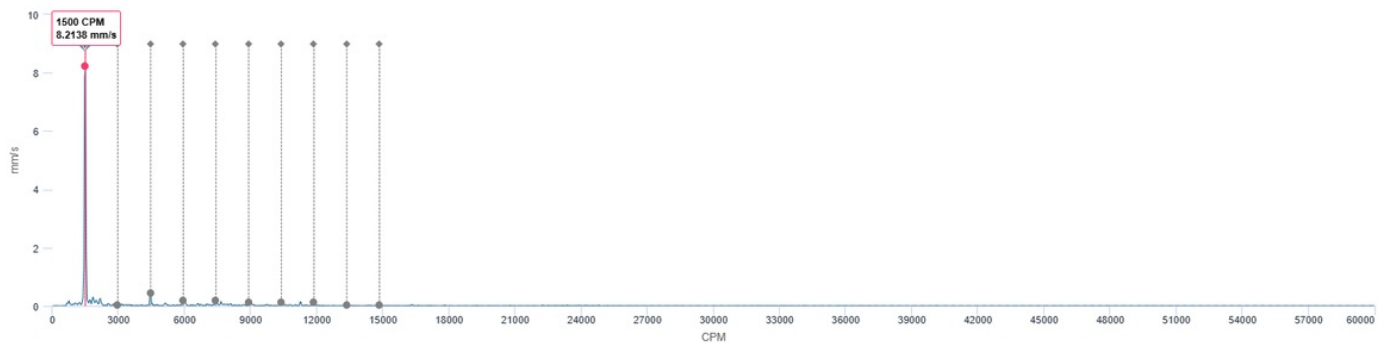
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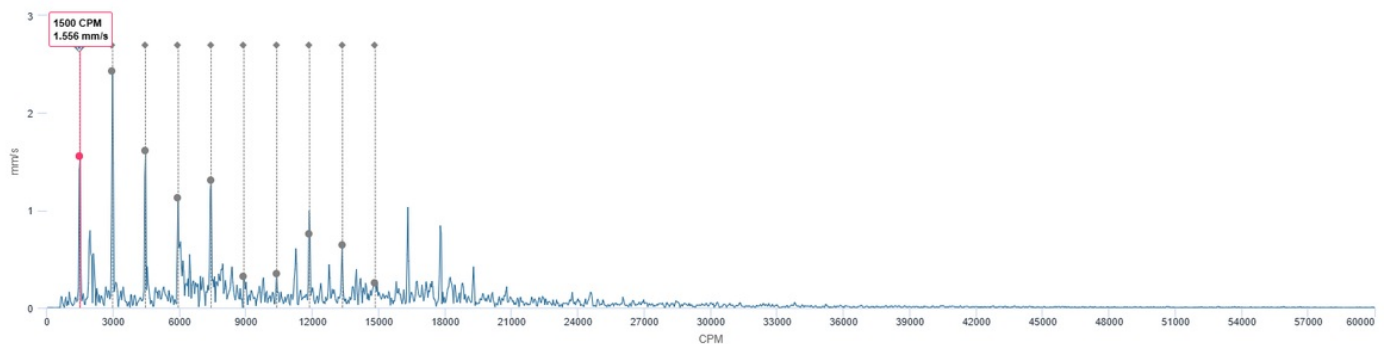
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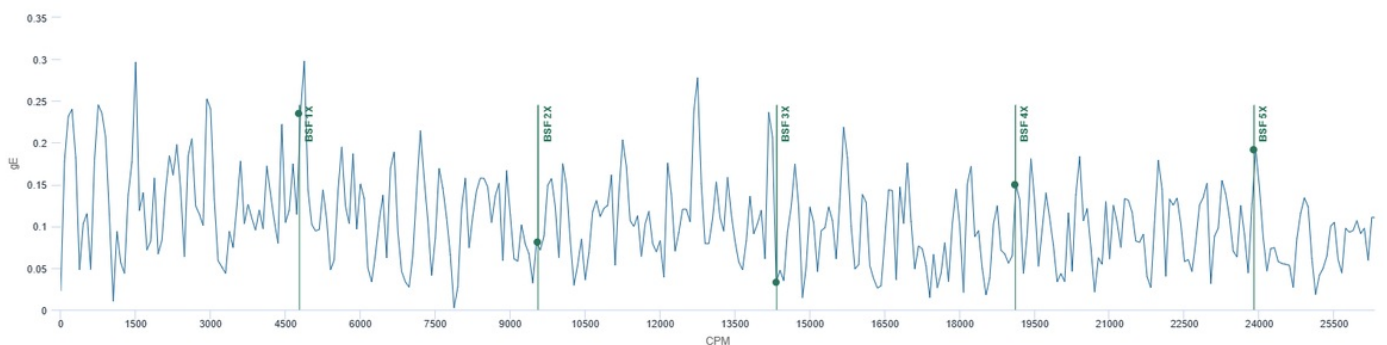
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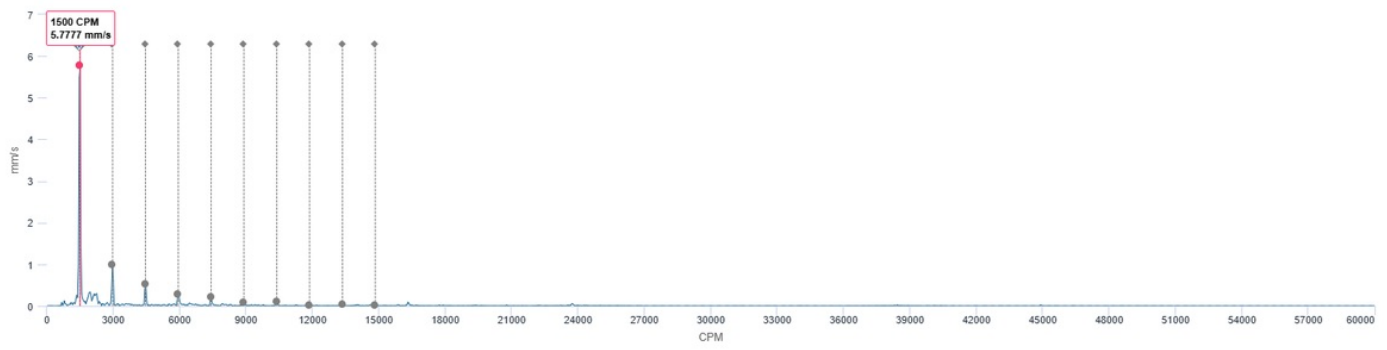
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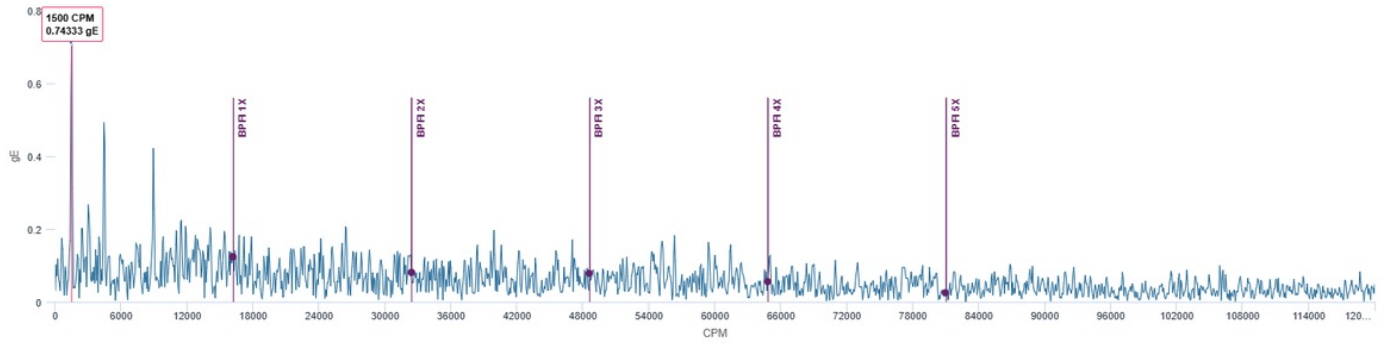
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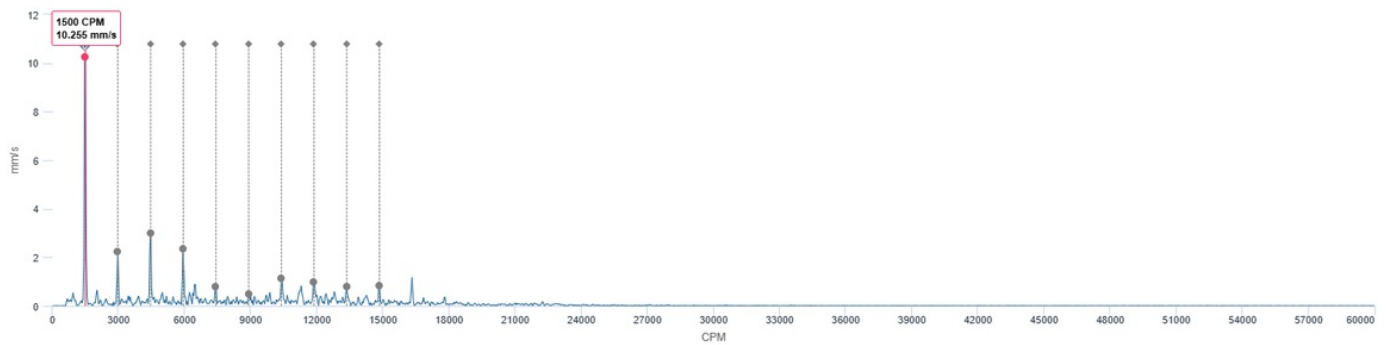
6. PT-Intidaya-Dinamika-Sejati_MB-1-SN--_04HE3-Block-bearing-NDE_20251217_spectrum-chart



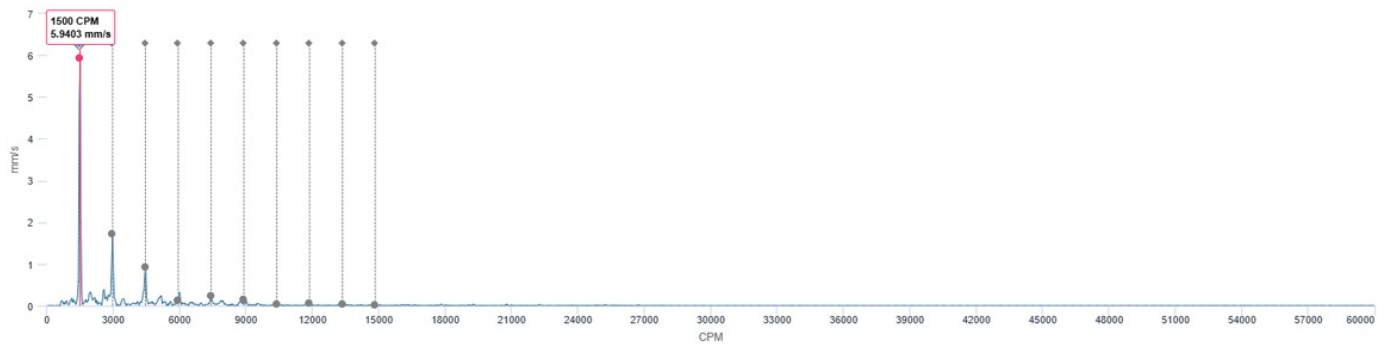
7. PT-Intidaya-Dinamika-Sejati_MB-1-SN--_01AV-Motor-DE_20251217_spectrum-chart



8. PT-Intidaya-Dinamika-Sejati_MB-1-SN--_03HE3-Block-bearing-DE_20251217_spectrum-chart



9. PT-Intidaya-Dinamika-Sejati_MB-1-SN--_04AV-Block-bearing-NDE_20251217_spectrum-chart



10. PT-Intidaya-Dinamika-Sejati_MB-1-SN--_02VV-Motor-NDE_20251217_spectrum-chart



PT. INTIDAYA DINAMIKA SEJATI

DATA TREND VIBRASI DAN ISO 10816-3



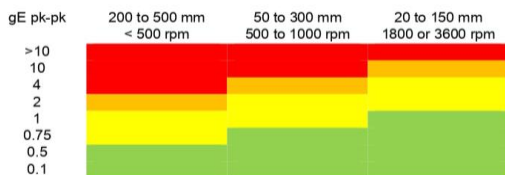
DATA TREND VIBRASI

		PT INTIDAYA DINAMIKA SEJATI								
TREND VIBRASI DAN TEMPERATUR FAN BLOWER										
DATA CUSTOMER DAN FAN BLOWER										
1	NAMA CUSTOMER	PT. MULTI SPUNINDO JAYA	SERIAL NUMBER	-	SPEED FAN BLOWER	1000	RPM			
2	TANGGAL INSPECTION	10 DESEMBER 2025	APLIKASI	-	POWER MOTOR	132	KW			
3	NOMOR PO	-	POWER MOTOR	132	AMPERE	-	A			
4	NOMOR SO	-	DIAMETER PULLY MOTOR	Dirrect Coupling	VACUUM / PRESSURE	-	mBar			
5	MERK	STUTTIGART	DIAMETER PULLY FAN BLOWE	Dirrect Coupling	DURATION	-	MENTIT			
6	TYPE FAN BLOWER	CSB 1250	SPEED MOTOR	1000	JUMLAH V-BELT	Dirrect Coupling	PCS			
NO.	VIBRASI DAN TEMPERATURE FAN BLOWER		RPM 1000			RPM 1484		INSPECTION III		
		Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C
1	AXIAL BLOCK BEARING DE	3,23		32,21	5,56	-	38,09	-	-	
2	HORIZONTAL BLOCK BEARING DE	1,31	2,73	33,11	2,76	6,26	41,39	-	-	
3	VERTICAL BLOCK BEARING DE	1,88		31,67	4,09	-	38,35	-	-	
4	AXIAL BLOCK BEARING NDE	4,49		32,67	13,70	-	37,25	-	-	
5	HORIZONTAL BLOCK BEARING NDE	2,22	4,77	32,21	8,07	6,07	39,83	-	-	
6	VERTICAL BLOCK BEARING NDE	3,08		32,27	11,68	-	40,43	-	-	
NO.	VIBRASI DAN TEMPERATURE MOTOR		RPM 1000			RPM 1484		INSPECTION III		
		Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C
1	HORIZONTAL NDE	4,20	5,93	30,11	12,81	9,08	31,49	-	-	
2	VERTICAL NDE	3,53		30,77	6,91	-	31,07	-	-	
3	AXIAL DE	7,49		30,47	6,81	-	33,21	-	-	
4	HORIZONTAL DE	3,13	5,65	30,45	9,49	6,73	32,05	-	-	
5	VERTICAL DE	5,57		30,71	2,87	-	32,67	-	-	

ISO 10816-3

Machine Vibration Severity

Vibration Evaluation Standard per ISO 10816-3									
Group		Group 1		Group 2		Group 3		Group 4	
Machine type		Motors: 315mm ≤ H		Motors: 160mm ≤ H < 315mm		External driver		Integrated driver	
		large machines 300 kW < P ≤ 50 MW		medium sized machines 15 kW < P ≤ 300 kW		pumps > 15 kW radial, axial, mixed flow			
Foundation support		rigid		flexible		rigid		flexible	
mm/s rms	in/s rms								
18	0.76								
11	0.46								
7.1	0.29								
4.5	0.19								
3.5	0.14								
2.8	0.12								
2.3	0.09								
1.4	0.05								
0.71	0.03								
		Frequency range:		10 Hz to 1000 Hz		Speed > 600 RPM			
				2 Hz to 1000 Hz		Speed > 120 RPM			
ZONE	D	Vibration values normally considered to be sufficient severity to cause damage to the machine.							
	C	Machine considered unsatisfactory for long-term continuous operation.							
	B	Machine considered acceptable for unrestricted long-term operation.							
	A	Vibration of newly commissioned machine.							



Technical Associates of Charlottes		Vibration Severity (mm/s RMS)	
Machine Type		Alarm 1 Warning	Alarm 2 Fault
Cooling Tower Drive			
Long, hollow drive shaft		11.0	16.0
Close coupled belt drive		7.5	12.0
Close coupled direct drive		5.5	8.0
Compressors			
Reciprocating		9.0	13.5
Rotary Screw		8.0	12.0
Centrifugal with or without external gearbox		6.5	8.0
Centrifugal-integral gear (axial meas.)		5.5	8.0
Centrifugal-integral gear (radial meas.)		4.5	6.5
Blowers (Fans)			
Lobe-type rotary		8.0	12.0
Belt-driven blower		7.5	11.5
General direct drive fans (with coupling)		6.5	10.0
Primary Air Fans		6.5	10.0
Vacuum blowers		5.5	8.0
Large Forced draft fans		5.5	8.0
Large Induced Draft Fans		5.0	7.5
Shaft mounted Integral Fans (extended motor shaft)		5.0	7.5
Vane-Axial Fans		4.5	6.5



PT. INTIDAYA DINAMIKA SEJATI

INSPEKSI REPORT FAN BLOWER



TANGGAL PENGECEKAN	10 DESEMBER 2025	NAMA USER	Bpk. Rengga
NAMA CUSTOMER	PT. MULTI SPUNINDO	ALAMAT EMAIL	
NOMOR PO	-	LOKASI	Sidoarjo
NOMOR SO	-	INSPEKTOR	Josefin

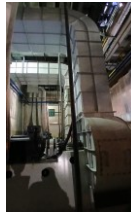
DATA FAN BLOWER

MERK FAN BLOWER BLOWER	STUTT GART	POWER MOTOR / POLE	132 KW/4 POLE
TYPE FAN BLOWER	CSB 1250/MB 2	INPUT VOLTAGE R/S/T	-
SERIAL NUMBER	-	AMPERE	-
APLIKASI	-	NOISE FAN BLOWER	-
DIAMETER PULLY MOTOR	Direct Coupling	PRESSURE	-
DIAMETER PULLY FAN BLOWER	Direct Coupling	TYPE/ JUMLAH V-BELT	Direct Coupling
SPEED MOTOR	1484	KAPASITAS OLI	-
SPEED FAN BLOWER	1484	TYPE OLI / VISKOSITAS	-

LAMPIRAN FOTO



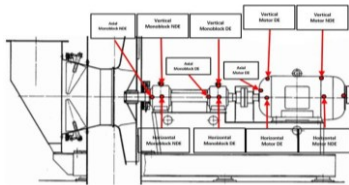
Foto Nameplate Fan Blower



Overvie Unit



Foto Nameplate Motor



POSISI MOTOR		Velocity (mm/S)	Enveloped (gE)	TEMPERATURE (°C)
1	HORIZONTAL NDE	31,51	7,02	30,45
2	VERTICAL NDE	5,90	-	29,85
3	AXIAL DE	5,97	-	32,71
4	HORIZONTAL DE	19,01	5,18	31,47
5	VERTICAL DE	15,42	-	32,25
POSISI FAN BLOWER		Velocity (mm/S)	Enveloped (gE)	TEMPERATURE (°C)
1	AXIAL BLOCK BEARING DE	23,44	-	32,71
2	HORIZONTAL BLOCK BEARING DE	15,33	7,94	33,91
3	VERTICAL BLOCK BEARING DE	13,61	-	32,89
4	AXIAL BLOCK BEARING NDE	26,13	-	36,21
5	HORIZONTAL BLOCK BEARING NDE	15,28	2,97	36,61
6	VERTICAL BLOCK BEARING NDE	24,16	-	38,27

KESIMPULAN

1. Setelah dilakukan pengecekan berdasarkan analisa spectrum menunjukkan pola khas indikasi misalignment pada 1-3x harmonic dan indikasi unbalance = 1x rpm amplitudo tinggi
2. Lakukan pembersihan rotor/impeller, penumpukan kerak, dan periksa kelengkapan dan kekencangan baut/bilah.
3. Lakukan trim balancing (single atau dual plane sesuai kebutuhan). Ukur ulang setelahnya; targetkan $\geq 50-70\%$ pengurangan pada 1X.
4. Lakukan pengecekan alignment
5. Lakukan monitoring trend vibrasi dan temperature untuk meninjau kenaikan value vibrasi dan pola spectrum

MENGETAHUI	DI INSPEKSI	MENGETAHUI
 Signed by: 83871907-5B8A-476A-A0F5-23CF4679DFB9	 Signed by: C03B0176-12B2-4301-B844-8B62B799B131	
AHMADI	Josefin	
PRODUCT & SERVICE MANAGER	TECHNISIAN	PT. MULTI SPUNINDO

MB 2 SN -

1/1

PT Intidaya Dinamika Sejati/PT INTIDAYA DINAMIKA SEJATI/IDS SURABAYA/MULTI SPUNINDO JAYA TBK

● **Unacceptable**
12 Dec, 2025, 11:30

Criticality
Medium

No description

Reported since
collection
✓

Last collection
10 Dec, 2025

Asset status history

● **Unacceptable**
12 Dec, 2025

MB 2 SN - - F-001 1/1 - Other

Collection date
10 Dec, 2025

Condition monitoring technique
Vibration Analysis

Fault
Other

Severity
! 8 Severe

Created on
12 Dec, 2025

Created by
Iqbal IDS Surabaya

Observation

Setelah dilakukan pengecekan berdasarkan analisa spectrum menunjukan pola khas indikasi misalignment pada 1-3x harmonic dan indikasi unbalance = 1x rpm amplitudo tinggi

Recommended action 1/1 - Other

Action
Other

Action status
Pending

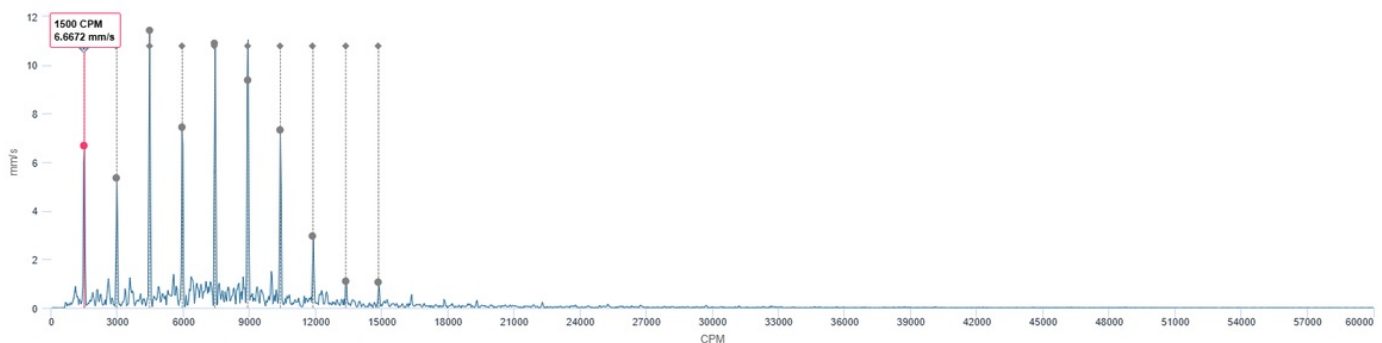
Work order number
-

Recommended due date
10 Jan, 2026

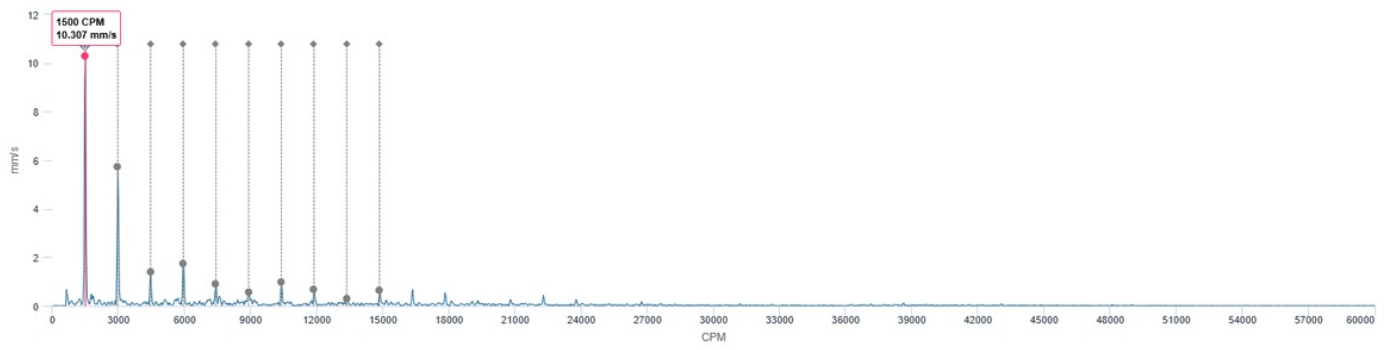
Additional comments

1. Lakukan pembersihan rotor/impeller, penumpukan kerak, dan periksa kelengkapan dan kekencangan baut/bilah.
2. Lakukan trim balancing (single atau dual plane sesuai kebutuhan). Ukur ulang setelahnya; targetkan $\geq 50-70\%$ pengurangan pada 1X.
3. Lakukan pengecekan alignment
4. Lakukan monitoring trend vibrasi pada band sekitar 1X (0,9–1,1X) dan alarm keseluruhan velocity.

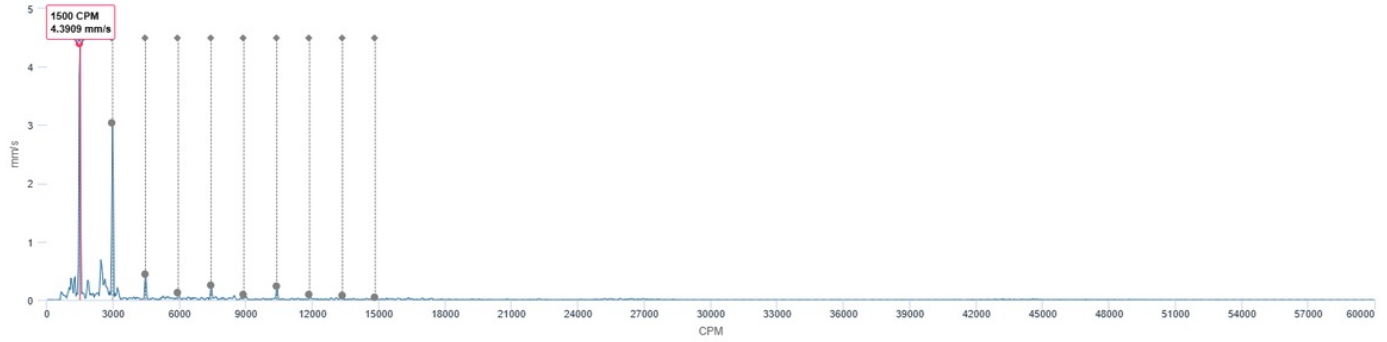
Images - 11



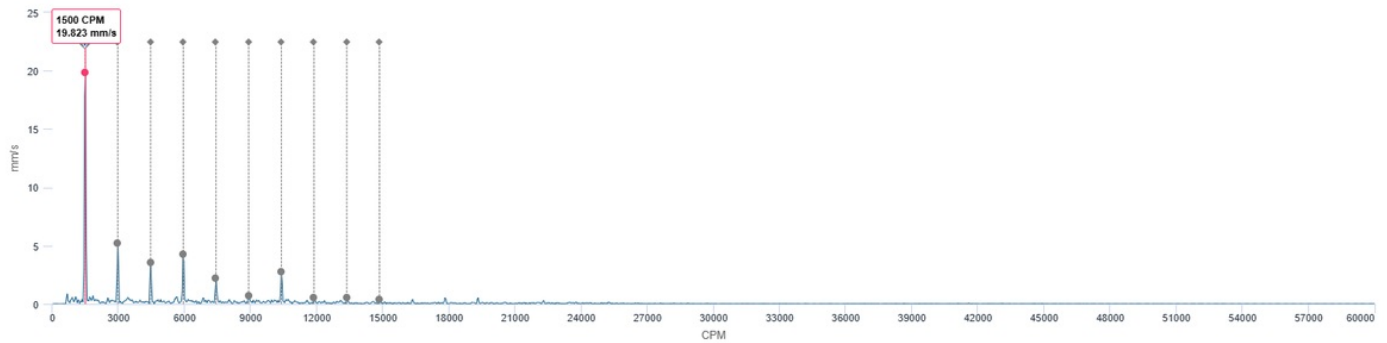
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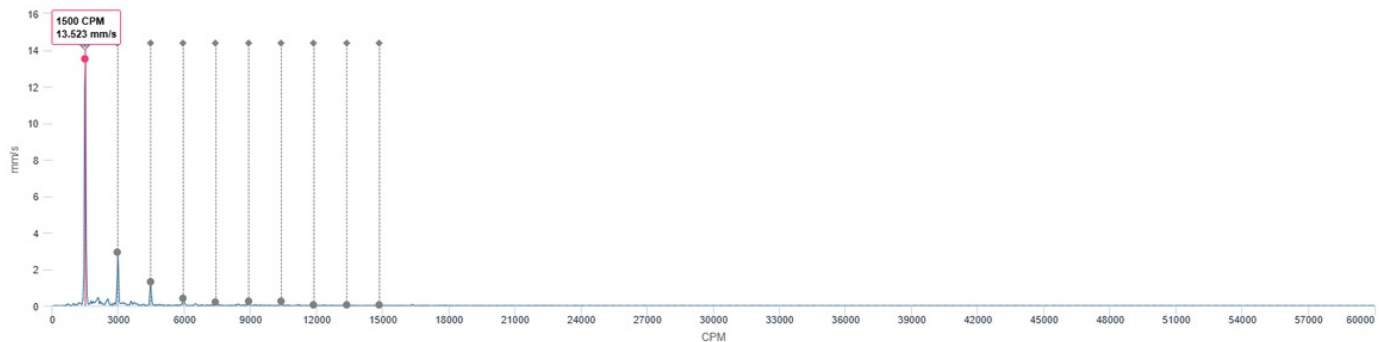
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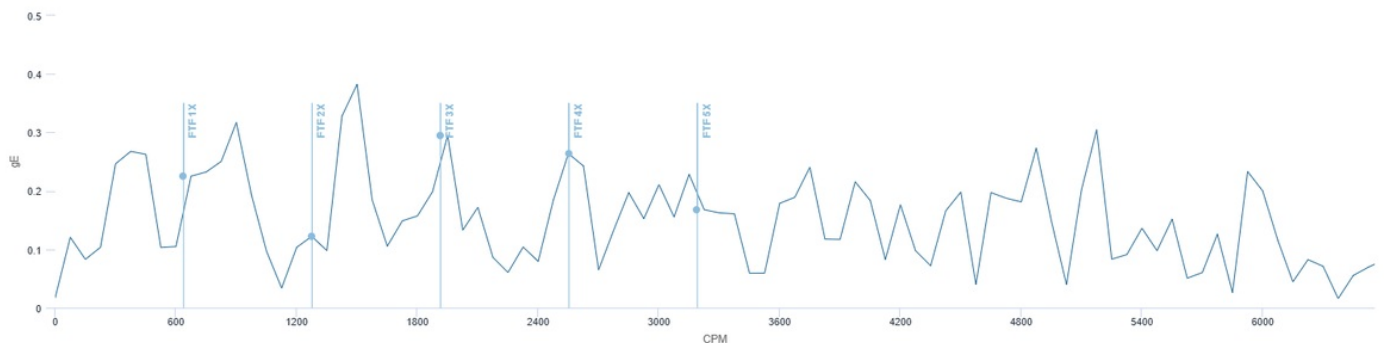
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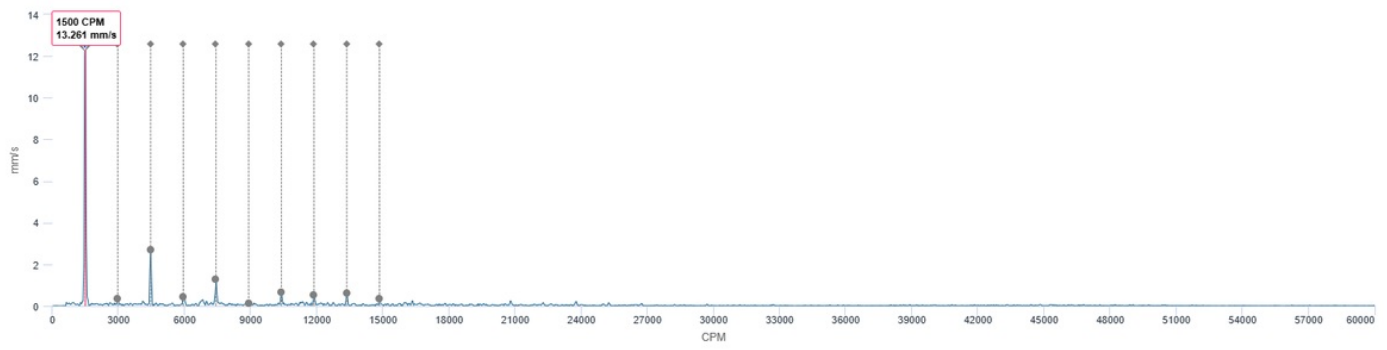
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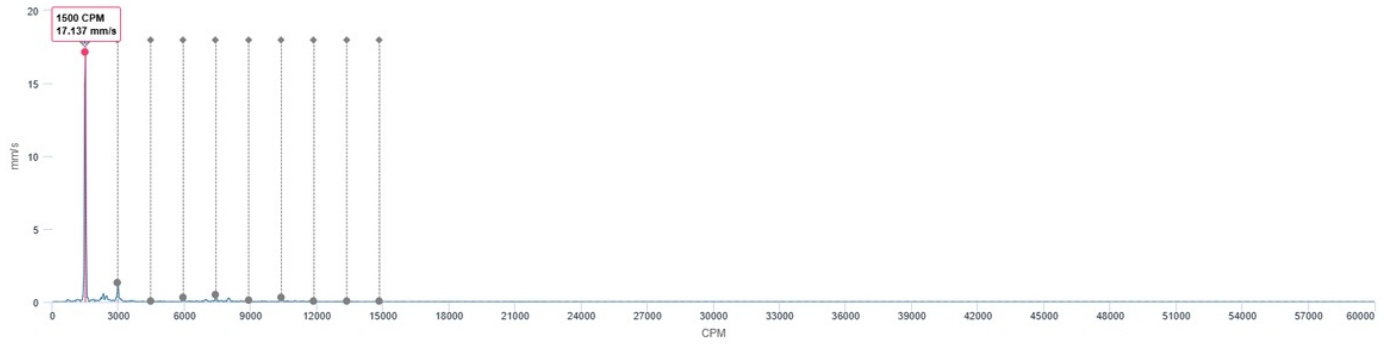
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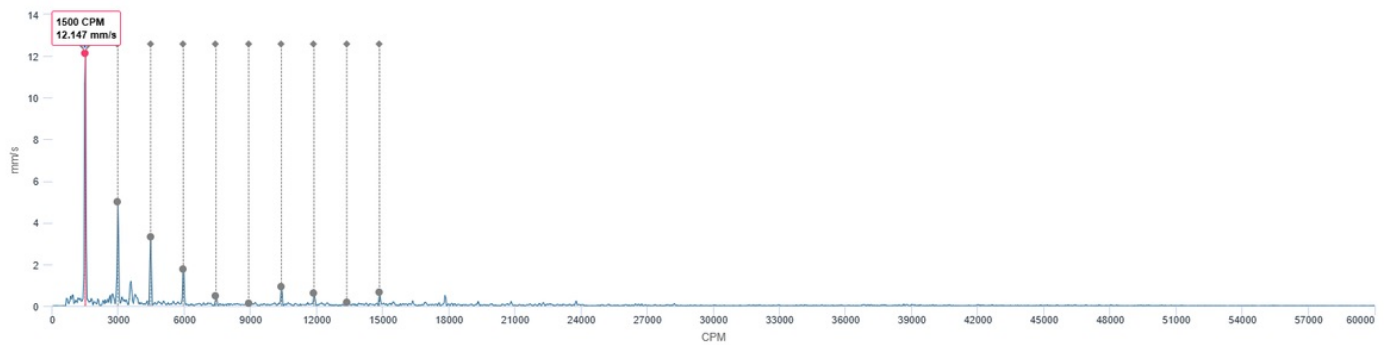
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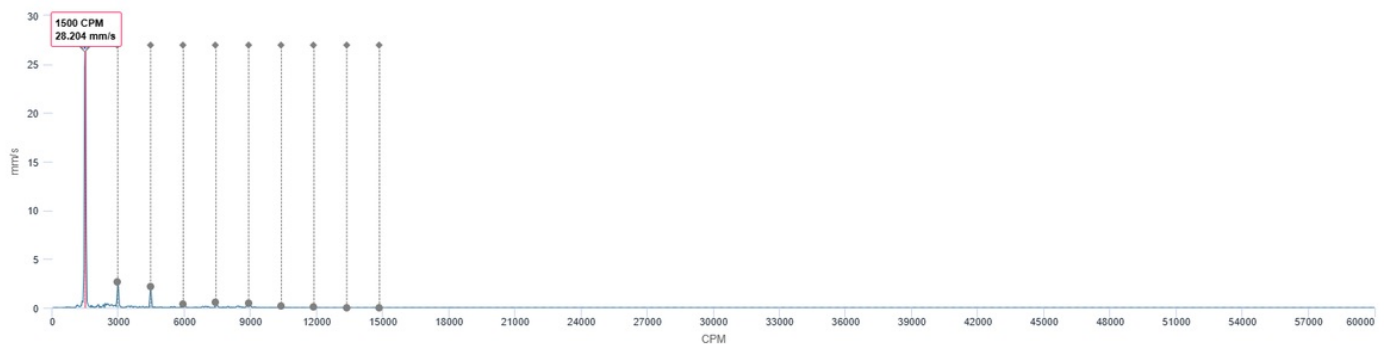
7. PT-Intidaya-Dinamika-Sejati_MB-2-SN--_03HV-Block-bearing-DE_20251217_spectrum-chart



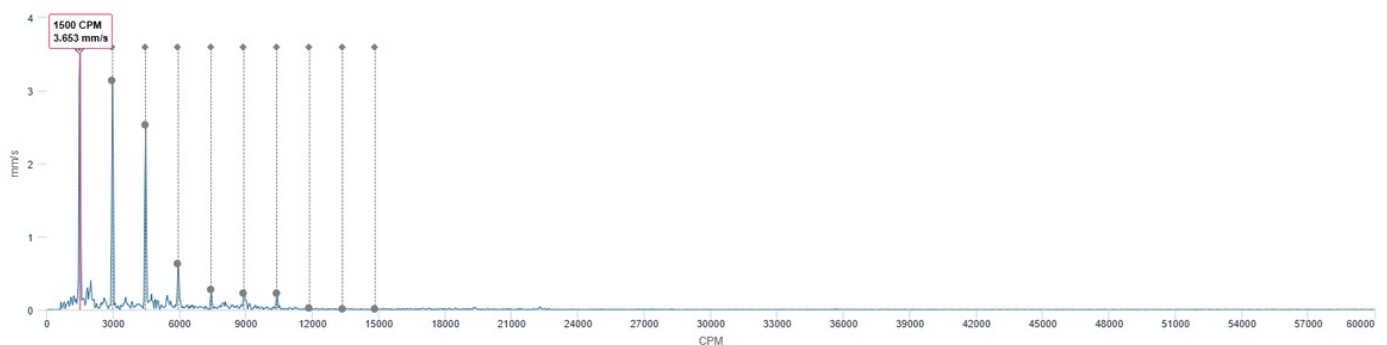
8. PT-Intidaya-Dinamika-Sejati_MB-2-SN--_01HV-Motor-DE_20251217_spectrum-chart



9. PT-Intidaya-Dinamika-Sejati_MB-2-SN--_04HV-Block-bearing-NDE_20251217_spectrum-chart



10. PT-Intidaya-Dinamika-Sejati_MB-2-SN--_02HV-Motor-NDE_20251217_spectrum-chart



11. PT-Intidaya-Dinamika-Sejati_MB-2-SN--_02VV-Motor-NDE_20251217_spectrum-chart



PT. INTIDAYA DINAMIKA SEJATI

DATA TREND VIBRASI DAN ISO 10816-3



DATA TREND VIBRASI



PT INTIDAYA DINAMIKA SEJATI

TREND VIBRASI DAN TEMPERATUR FAN BLOWER

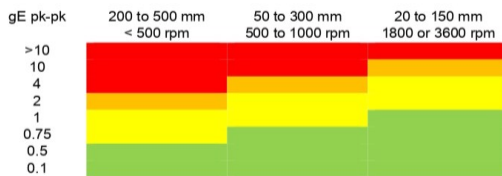


DATA CUSTOMER DAN FAN BLOWER									
1	NAMA CUSTOMER	PT. MULTI SPUNINDO	SERIAL NUMBER	-	SPEED FAN BLOWER	1000	RPM		
2	TANGGAL INSPECTION	10 DESEMBER 2025	APLIKASI	-	POWER MOTOR	400	KW		
3	NOMOR PO	-	POWER MOTOR	132	AMPERE	-	A		
4	NOMOR SO	-	DIAMETER PULLEY MOTOR	Direct Coupling	VACUUM / PRESSURE	-	mBar		
5	MERK	STUTTIGART	DIAMETER PULLEY FAN BLOWER	Direct Coupling	DURATION	-	MENTIT		
6	TYPE FAN BLOWER	CSB 1250	SPEED MOTOR	1000	JUMLAH V-BELT	Direct Coupling	PCS		
NO.	VIBRASI DAN TEMPERATURE FAN BLOWER	RPM 1000			RPM 1848			INSPECTION III	
		Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE
1	AXIAL BLOCK BEARING DE	22,96		30,51	23,44	-	32,71	-	-
2	HORIZONTAL BLOCK BEARING DE	3,69	4,63	31,71	15,33	7,94	33,91	-	-
3	VERTICAL BLOCK BEARING DE	3,15		30,47	13,61	-	32,89	-	-
4	AXIAL BLOCK BEARING NDE	12,59		31,41	26,13	-	36,21	-	-
5	HORIZONTAL BLOCK BEARING NDE	3,72	2,19	32,11	15,28	2,97	36,61	-	-
6	VERTICAL BLOCK BEARING NDE	5,93		31,43	24,16	-	38,27	-	-
NO.	VIBRASI DAN TEMPERATURE MOTOR	RPM 1000			RPM 1848			INSPECTION III	
		Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE
1	HORIZONTAL NDE	9,70	4,97	30,09	31,51	7,02	30,45	-	-
2	VERTICAL NDE	4,63		29,59	5,90	-	29,85	-	-
3	AXIAL DE	13,71		30,81	5,97	-	32,71	-	-
4	HORIZONTAL DE	8,45	2,49	30,15	19,01	5,18	31,47	-	-
5	VERTICAL DE	8,25		30,51	15,42	-	32,25	-	-

ISO 10816-3

Machine Vibration Severity

Vibration Evaluation Standard per ISO 10816-3												
Group	Group 1				Group 2		Group 3		Group 4			
Machine type	Motors 315mm ≤ H large machines 300 kW < P < 60 MW				Motors 160mm ≤ H < 315mm medium sized machines 15 kW < P ≤ 300 kW		External driver		Integrated driver pumps > 15 kW radial, axial, mixed flow			
Foundation support	rigid		flexible		rigid		flexible		rigid		flexible	
mm/s rms	18	0.76										
in/s rms	11	0.48										
7.1	0.29											
4.5	0.19											
3.5	0.14											
2.8	0.12											
2.3	0.09											
1.4	0.05											
0.71	0.03											
			Frequency range:		10 Hz to 1000 Hz		Speed > 600 RPM					
					2 Hz to 1000 Hz		Speed > 120 RPM					
ZONE	D		Vibration values normally considered to be sufficient severity to cause damage to the machine.									
	C		Machine considered unsatisfactory for long-term continuous operation.									
	B		Machine considered acceptable for unrestricted long-term operation.									
	A		Vibration of newly commissioned machine.									



Technical Associates of Charlottes		Vibration Severity (mm/s RMS)	
Machine Type		Alarm 1 Warning	Alarm 2 Fault
Cooling Tower Drive			
Long, hollow drive shaft		11.0	16.0
Close coupled belt drive		7.5	12.0
Close coupled direct drive		5.5	8.0
Compressors			
Reciprocating		9.0	13.5
Rotary Screw		8.0	12.0
Centrifugal with or without external gearbox		6.5	8.0
Centrifugal-integral gear (axial meas.)		5.5	8.0
Centrifugal-integral gear (radial meas.)		4.5	6.5
Blowers (Fans)			
Lobe-type rotary		8.0	12.0
Belt-driven blower		7.5	11.5
General direct drive fans (with coupling)		6.5	10.0
Primary Air Fans		6.5	10.0
Vacuum blowers		5.5	8.0
Large Forced draft fans		5.5	8.0
Large Induced Draft Fans		5.0	7.5
Shaft mounted Integral Fans (extended motor shaft)		5.0	7.5
Vane-Axial Fans		4.5	6.5



PT. INTIDAYA DINAMIKA SEJATI

INSPEKSI REPORT FAN BLOWER



TANGGAL PENGECEKAN	10 DESEMBER 2025	NAMA USER	Bpk. Rengga
NAMA CUSTOMER	PT. MULTI SPUNINDO	ALAMAT EMAIL	
NOMOR PO	-	LOKASI	Sidoarjo
NOMOR SO	-	INSPEKTOR	Josefin

DATA FAN BLOWER

MERK FAN BLOWER BLOWER	STUTTART	POWER MOTOR / POLE	132 KW/4 POLE
TYPE FAN BLOWER	CSB 1250/SB1	INPUT VOLTAGE R/S/T	-
SERIAL NUMBER	-	AMPERE	-
APLIKASI	-	NOISE FAN BLOWER	-
DIAMETER PULLEY MOTOR	Direct Coupling	PRESSURE	-
DIAMETER PULLEY FAN BLOWER	Direct Coupling	TYPE/ JUMLAH V-BELT	Direct Coupling
SPEED MOTOR	1484	KAPASITAS OLI	-
SPEED FAN BLOWER	1484	TYPE OLI / VISKOSITAS	-

LAMPIRAN FOTO

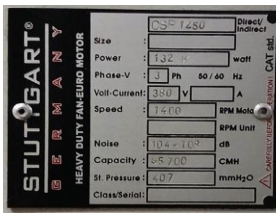


Foto Nameplate Fan Blower



Overvie Unit

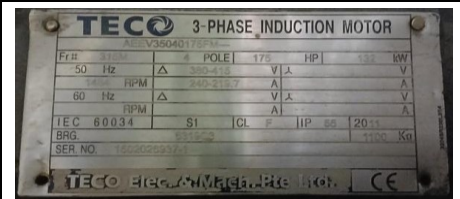
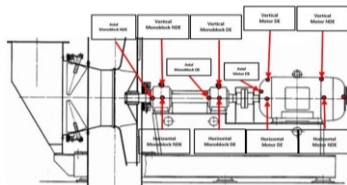


Foto Nameplate Motor



POSISI MOTOR		Velocity (mm/S)	Enveloped (gE)	TEMPERATURE (°C)
1	HORIZONTAL NDE	10,46	10,03	35,31
2	VERTICAL NDE	2,95	-	35,07
3	AXIAL DE	4,09	-	36,17
4	HORIZONTAL DE	8,29	2,97	35,81
5	VERTICAL DE	3,10	-	2,97
POSISI FAN BLOWER		Velocity (mm/S)	Enveloped (gE)	TEMPERATURE (°C)
1	AXIAL BLOCK BEARING DE	15,82	-	34,77
2	HORIZONTAL BLOCK BEARING DE	4,99	18,10	34,63
3	VERTICAL BLOCK BEARING DE	5,38	-	34,29
4	AXIAL BLOCK BEARING NDE	11,18	-	41,09
5	HORIZONTAL BLOCK BEARING NDE	6,97	4,55	41,35
6	VERTICAL BLOCK BEARING NDE	10,06	-	40,91

KESIMPULAN

1. Setelah dilakukan pengecekan berdasarkan analisa spectrum menunjukan pola khas indikasi misalignment pada 1-3x harmonic dan indikasi unbalance = 1x rpm amplitudo tinggi
2. Lakukan pembersihan rotor/impeller; penumpukan kerak; dan periksa kelengkapan dan kekencangan baut/bilah.
3. Lakukan trim balancing (single atau dual plane sesuai kebutuhan). Ukur ulang setelahnya; targetkan $\geq 50-70\%$ pengurangan pada 1X.
4. Lakukan pengecekan alignment
5. Lakukan monitoring trend vibrasi dan temperature untuk meninjau kenaikan value vibrasi dan pola spectrum

MENGETAHUI	DI INSPEKSI	MENGETAHUI
 83871907-5B8A-476A-A0F5-23CF4679DF89	 CD381716-12B2-4301-8B44-98C287998131	
AHMADI	Josefin	
PRODUCT & SERVICE MANAGER	TEKNIISIAN	PT. MULTI SPUNINDO

SB 1 SN -

1/1

PT Intidaya Dinamika Sejati/PT INTIDAYA DINAMIKA SEJATI/IDS SURABAYA/MULTI SPUNINDO JAYA TBK

● **Unacceptable**
17 Dec, 2025, 14:39

Criticality
Medium

No description

Reported since
collection
✓

Last collection
10 Dec, 2025

Asset status history

● **Unacceptable**
17 Dec, 2025

SB 1 SN - - F-001 1/1 - Other

Collection date
10 Dec, 2025

Condition monitoring technique
Vibration Analysis

Fault
Other

Severity
⚠ 7 Severe

Created on
17 Dec, 2025

Created by
Iqbal IDS Surabaya

Observation

Setelah dilakukan pengecekan berdasarkan analisa spectrum menunjukan pola khas indikasi misalignment pada 1-3x harmonic dan indikasi unbalance = 1x rpm amplitudo tinggi

Recommended action 1/1 - Other

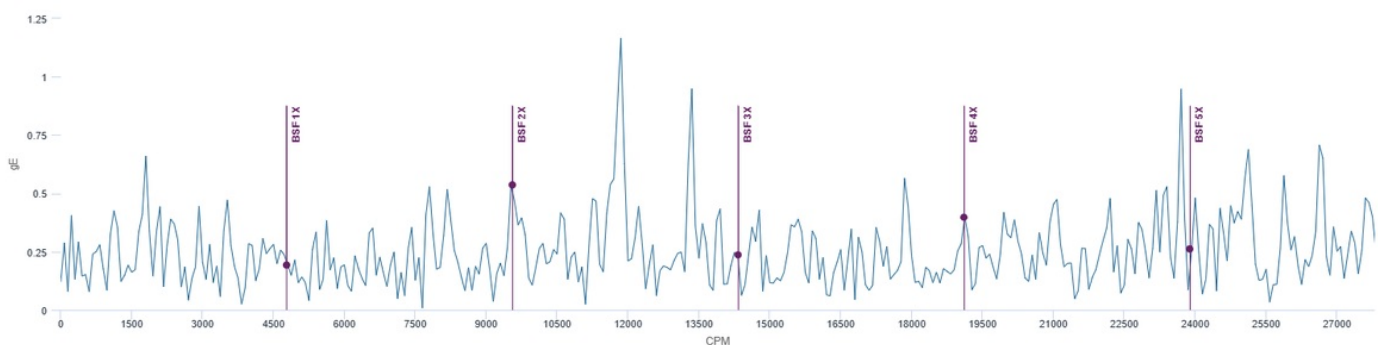
Action Other	Action status Pending	Work order number -
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Recommended due date
15 Jan, 2026

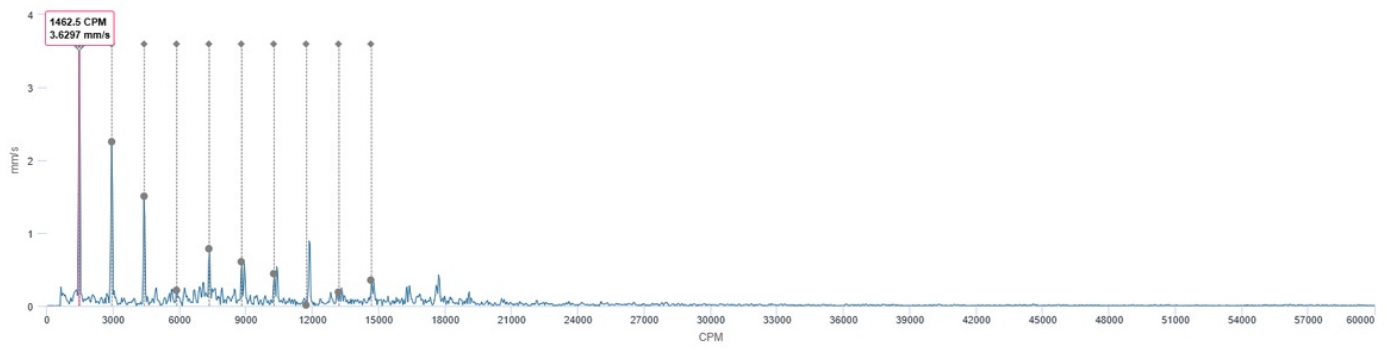
Additional comments

1. Lakukan pembersihan rotor/impeller; penumpukan kerak; dan periksa kelengkapan dan kekencangan baut/bilah.
2. Lakukan trim balancing (single atau dual plane sesuai kebutuhan). Ukur ulang setelahnya; targetkan $\geq 50-70\%$ pengurangan pada 1X.
3. Lakukan pengecekan alignment
4. Lakukan trend vibrasi pada band sekitar 1X (0,9–1,1X) dan alarm keseluruhan velocity.

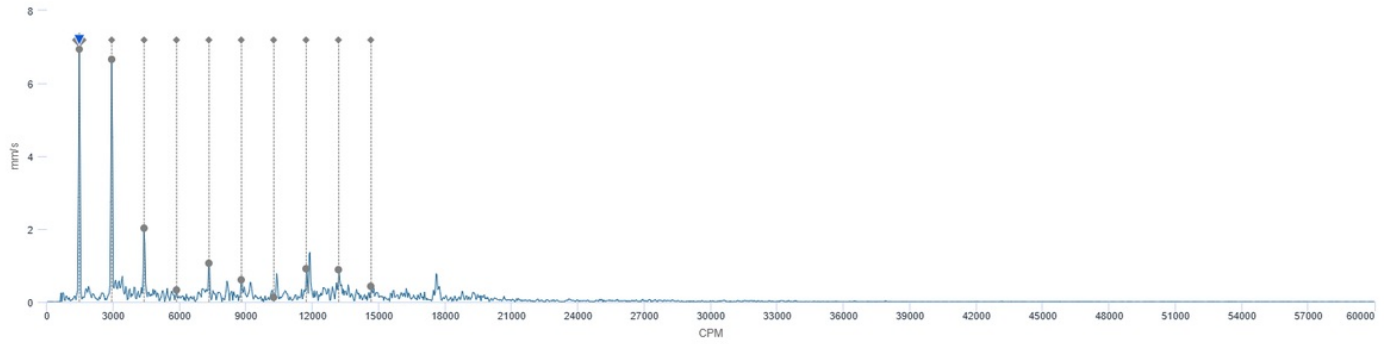
Images - 12



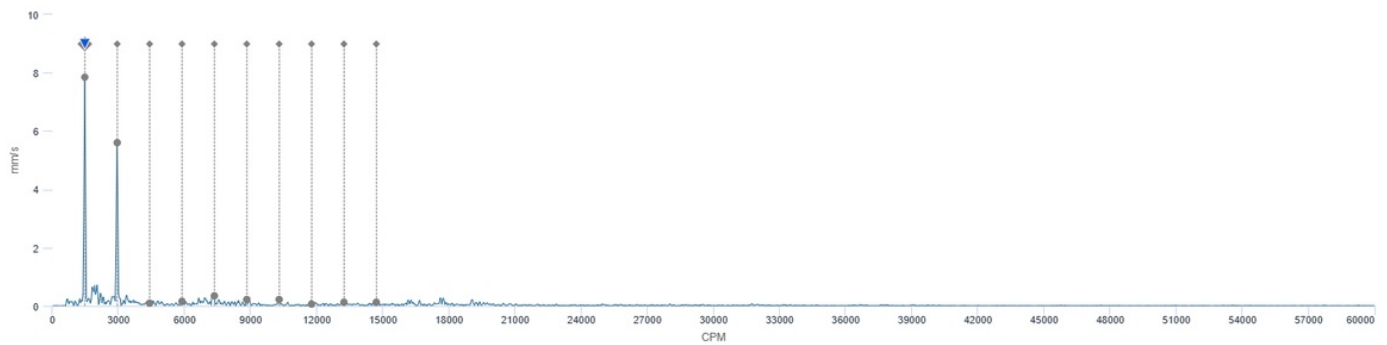
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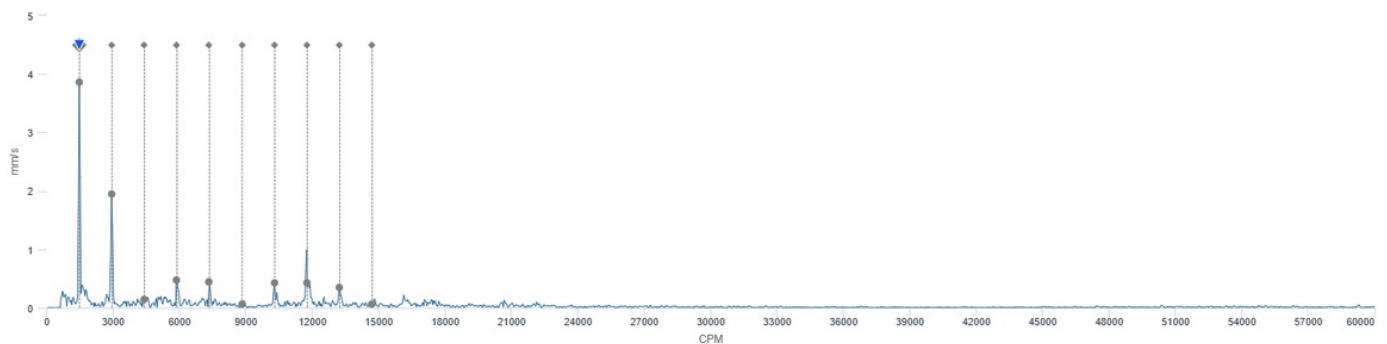
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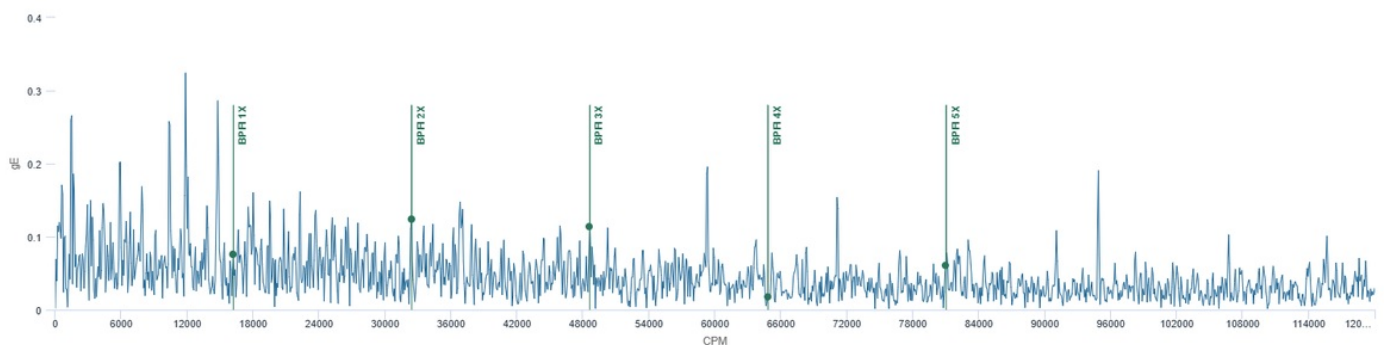
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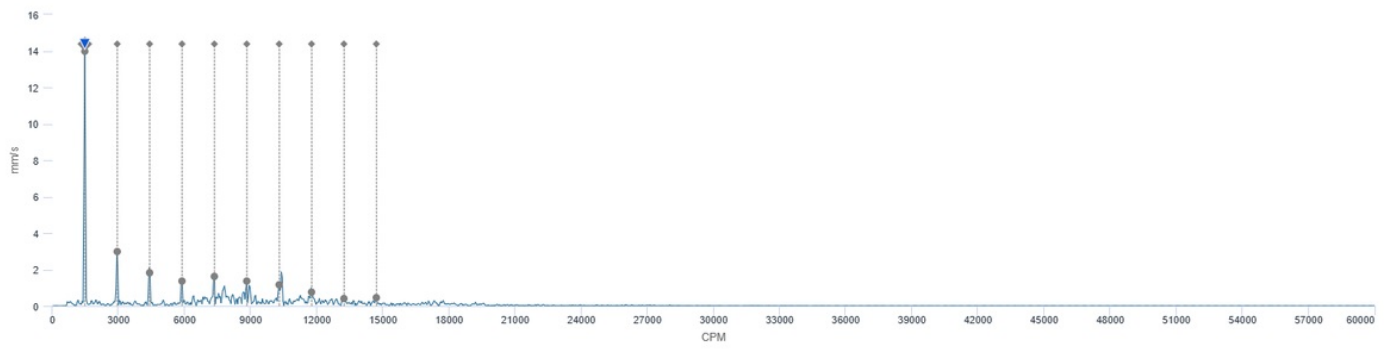
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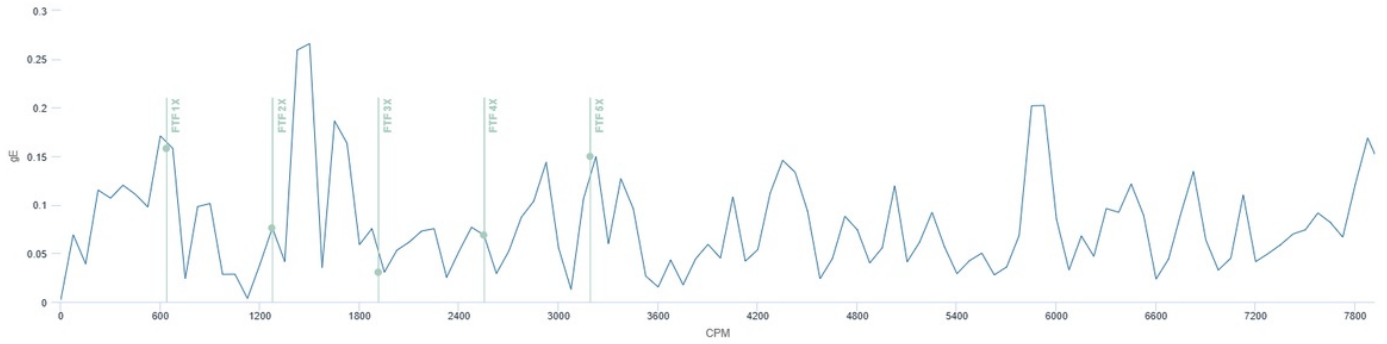
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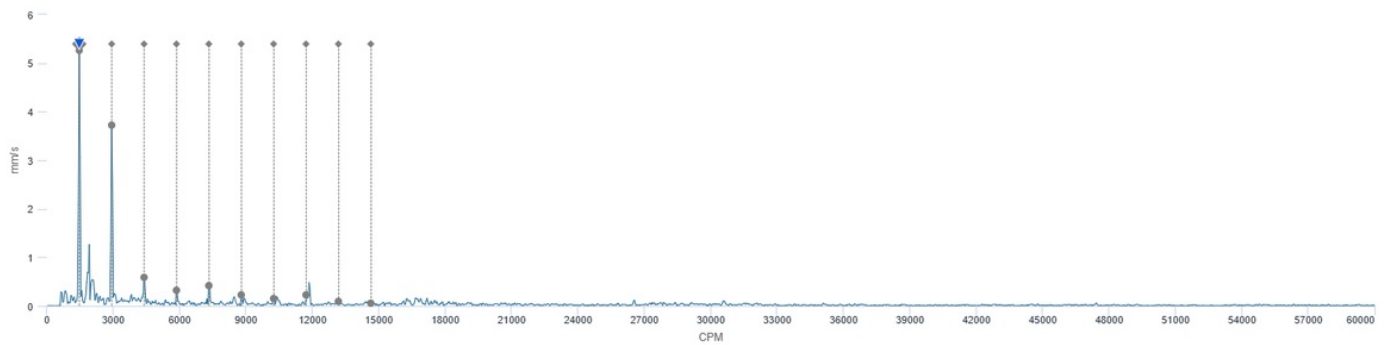
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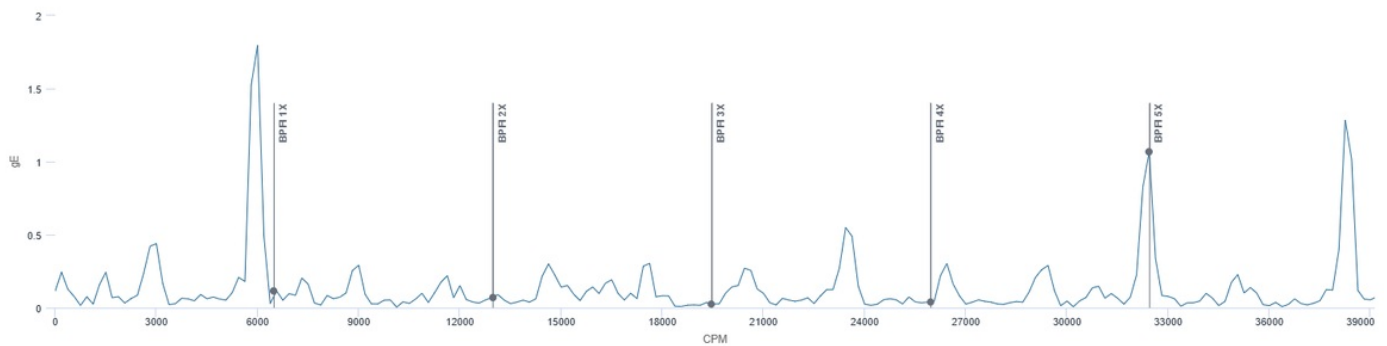
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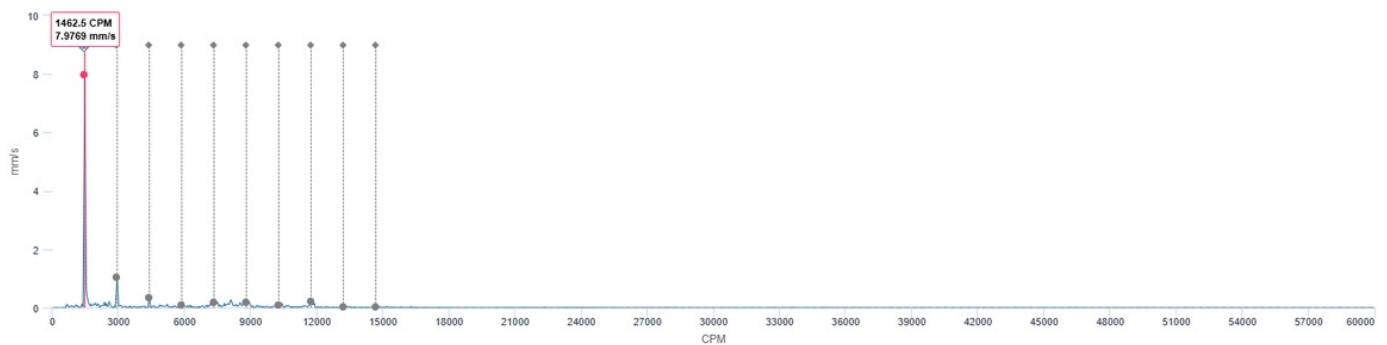
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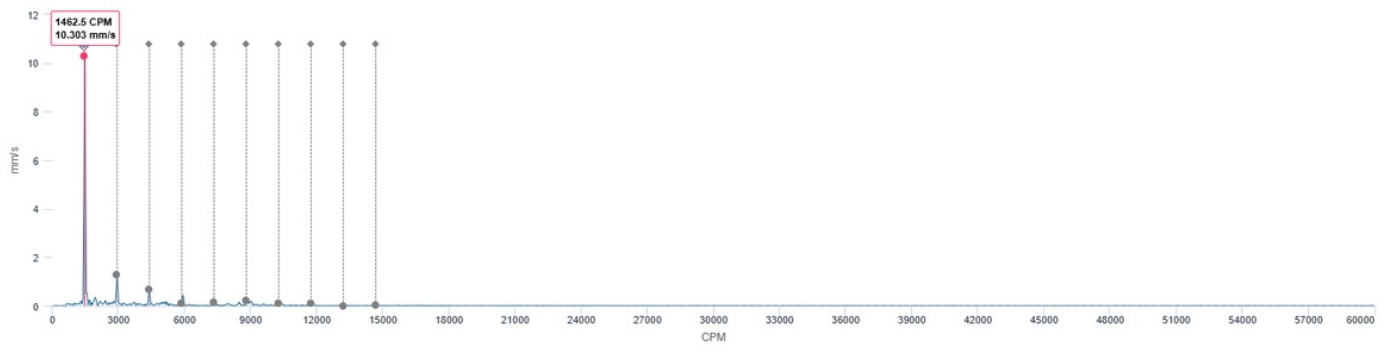
9. PT-Intidaya-Dinamika-Sejati_SB-1-SN--_04HV-Block-bearing-NDE_20251217_spectrum-chart



10. PT-Intidaya-Dinamika-Sejati_SB-1-SN--_02HE3-Motor-NDE_20251217_spectrum-chart



11. PT-Intidaya-Dinamika-Sejati_SB-1-SN--_01HV-Motor-DE_20251217_spectrum-chart



12. PT-Intidaya-Dinamika-Sejati_SB-1-SN--_02HV-Motor-NDE_20251217_spectrum-chart



PT. INTIDAYA DINAMIKA SEJATI

DATA TREND VIBRASI DAN ISO 10816-3



DATA TREND VIBRASI



PT INTIDAYA DINAMIKA SEJATI

TREND VIBRASI DAN TEMPERATUR FAN BLOWER



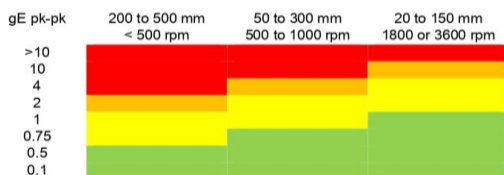
DATA CUSTOMER DAN FAN BLOWER

1	NAMA CUSTOMER	PT. MULTI SPUNINDO	SERIAL NUMBER	-	SPEED FAN BLOWER	1484	RPM			
2	TANGGAL INSPECTION	10 DESEMBER 2025	APLIKASI	-	POWER MOTOR	132	KW			
3	NOMOR PO	-	POWER MOTOR	132	AMPERE	-	A			
4	NOMOR SO	-	DIAMETER PULLY MOTOR	Dirrect Coupling	VACUUM / PRESSURE	-	mBar			
5	MERK	STUTT GART	DIAMETER PULLY FAN BLOWE	Dirrect Coupling	DURATION	-	MENTIT			
6	TYPE FAN BLOWER	CSB 1250	SPEED MOTOR	1484	JUMLAH V-BELT	Dirrect Coupling	PCS			
NO.	VIBRASI DAN TEMPERATURE FAN BLOWER		RPM 1000		RPM 1484		INSPECTION III			
		Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Temp °C	Velocity mm/s	Enveloped gE	Temp °C	
1	AXIAL BLOCK BEARING DE	2,45		31,41	15,82	-	34,77	-	-	
2	HORIZONTAL BLOCK BEARING DE	2,37	11,30	31,15	4,99	18,10	34,63	-	-	
3	VERTICAL BLOCK BEARING DE	1,74		30,47	5,38	-	34,29	-	-	
4	AXIAL BLOCK BEARING NDE	3,77		33,49	11,18	-	41,09	-	-	
5	HORIZONTAL BLOCK BEARING NDE	1,73	6,18	34,83	6,97	4,55	41,35	-	-	
6	VERTICAL BLOCK BEARING NDE	3,05		34,15	10,06	-	40,91	-	-	
NO.	VIBRASI DAN TEMPERATURE MOTOR		RPM 1000		RPM 1484		INSPECTION III			
		Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C
1	HORIZONTAL NDE	2,11	2,90	31,07	10,46	10,03	35,31	-	-	
2	VERTICAL NDE	1,44		31,15	2,95	-	35,07	-	-	
3	AXIAL DE	5,33		30,43	4,09	-	36,17	-	-	
4	HORIZONTAL DE	2,48	2,80	30,87	8,29	2,97	35,81	-	-	
5	VERTICAL DE	4,07		30,65	3,10	-	2,97	-	-	

ISO 10816-3

Machine Vibration Severity

Vibration Evaluation Standard per ISO 10816-3									
Group 1		Group 2		Group 3		Group 4			
Machine type		Motors 315mm ≤ H		Motors 160mm ≤ H < 315mm		External driver		Integrated driver	
		large machines 300 kW < P ≤ 50 MW		medium sized machines 15 kW < P ≤ 300 kW		pumps > 15 kW radial, axial, mixed flow			
Foundation support		rigid		flexible		rigid		flexible	
mm/s rms	in/s rms								
18	0.76								
11	0.46								
7.1	0.29								
4.5	0.19								
3.5	0.14								
2.8	0.12								
2.3	0.09								
1.4	0.05								
0.71	0.03								
		Frequency range:		10 Hz to 1000 Hz		Speed > 600 RPM			
				2 Hz to 1000 Hz		Speed > 120 RPM			
ZONE		D		Vibration values normally considered to be sufficient severity to cause damage to the machine.					
		C		Machine considered unsatisfactory for long-term continuous operation.					
		B		Machine considered acceptable for unrestricted long-term operation.					
		A		Vibration of newly commissioned machine.					



Technical Associates of Charlottes		Vibration Severity (mm/s RMS)	
Machine Type		Alarm 1 Warning	Alarm 2 Fault
Cooling Tower Drive			
Long, hollow drive shaft		11.0	16.0
Close coupled belt drive		7.5	12.0
Close coupled direct drive		5.5	8.0
Compressors			
Reciprocating		9.0	13.5
Rotary Screw		8.0	12.0
Centrifugal with or without external gearbox		6.5	8.0
Centrifugal-integral gear (axial meas.)		5.5	8.0
Centrifugal-integral gear (radial meas.)		4.5	6.5
Blowers (Fans)			
Lobe-type rotary		8.0	12.0
Belt-driven blower		7.5	11.5
General direct drive fans (with coupling)		6.5	10.0
Primary Air Fans		6.5	10.0
Vacuum blowers		5.5	8.0
Large Forced draft fans		5.5	8.0
Large Induced Draft Fans		5.0	7.5
Shaft mounted Integral Fans (extended motor shaft)		5.0	7.5
Vane-Axial Fans		4.5	6.5



PT. INTIDAYA DINAMIKA SEJATI

INSPEKSI REPORT FAN BLOWER



TANGGAL PENGECEKAN	10 DESEMBER 2025	NAMA USER	Bpk. Rengga
NAMA CUSTOMER	PT. MULTI SPUNINDO	ALAMAT EMAIL	
NOMOR PO	-	LOKASI	Sidoarjo
NOMOR SO	-	INSPEKTOR	Josefin

DATA FAN BLOWER

MERK FAN BLOWER BLOWER	STUTTART	POWER MOTOR / POLE	132 KW/4 POLE
TYPE FAN BLOWER	CSB 1250/SB 2	INPUT VOLTAGE R/S/T	-
SERIAL NUMBER	-	AMPERE	-
APLIKASI	-	NOISE FAN BLOWER	-
DIAMETER PULLEY MOTOR	Direct Coupling	PRESSURE	-
DIAMETER PULLEY FAN BLOWER	Direct Coupling	TYPE/ JUMLAH V-BELT	Direct Coupling
SPEED MOTOR	1484	KAPASITAS OLI	-
SPEED FAN BLOWER	1484	TYPE OLI / VISKOSITAS	-

LAMPIRAN FOTO

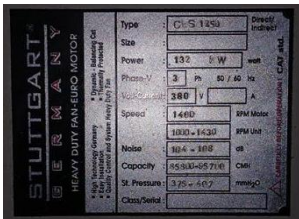


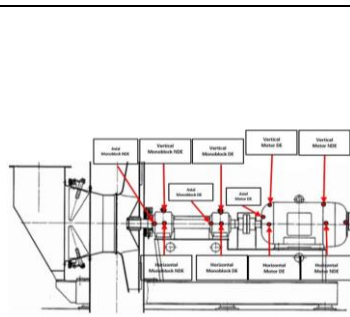
Foto Nameplate Fan Blower



Overview Unit



Foto Nameplate Motor



POSISI MOTOR		Velocity (mm/S)	Enveloped (gE)	TEMPERATURE (°C)
1	HORIZONTAL NDE	17,27	6,63	34,15
2	VERTICAL NDE	6,11	-	34,89
3	AXIAL DE	10,18	-	35,13
4	HORIZONTAL DE	12,77	6,41	35,15
5	VERTICAL DE	11,96	-	33,55
POSISI FAN BLOWER		Velocity (mm/S)	Enveloped (gE)	TEMPERATURE (°C)
1	AXIAL BLOCK BEARING DE	10,95	-	35,63
2	HORIZONTAL BLOCK BEARING DE	7,54	4,30	35,96
3	VERTICAL BLOCK BEARING DE	4,85	-	37,35
4	AXIAL BLOCK BEARING NDE	11,09	-	34,29
5	HORIZONTAL BLOCK BEARING NDE	7,67	6,24	34,55
6	VERTICAL BLOCK BEARING NDE	7,22	-	34,23

KESIMPULAN

1. Setelah dilakukan pengecekan berdasarkan analisa spectrum menunjukan pola khas indikasi misalignment pada 1-3x harmonic dan indikasi unbalance = 1x rpm amplitudo tinggi
2. Lakukan pembersihan rotor/impeller; penumpukan kerak; dan periksa kelengkapan dan kekencangan baut/bilah.
3. Lakukan trim balancing (single atau dual plane sesuai kebutuhan). Ukur ulang setelahnya; targetkan ≥50–70% pengurangan pada 1X.
4. Lakukan pengecekan alignment
5. Lakukan monitoring trend vibrasi dan temperature untuk meninjau kenaikan value vibrasi dan pola spectrum

MENGETAHUI	DI INSPEKSI	MENGETAHUI
 83871907-5B8A-476A-A0F5-23CF4679DF89	 CD361716-1262-4301-B844-986287998131	
AHMADI	Josefin	
PRODUCT & SERVICE MANAGER	TEKNISIAN	PT. MULTI SPUNINDO

SB 2 SN -

1/1

PT Intidaya Dinamika Sejati/PT INTIDAYA DINAMIKA SEJATI/IDS SURABAYA/MULTI SPUNINDO JAYA TBK

● **Unacceptable**
18 Dec, 2025, 11:41

Criticality
Medium

No description

Reported since
collection
✓

Last collection
10 Dec, 2025

Asset status history

● **Unacceptable**
18 Dec, 2025

SB 2 SN - - F-001 1/1 - Other

Collection date
10 Dec, 2025

Condition monitoring technique
Vibration Analysis

Fault
Other

Severity
⚠ 8 Severe

Created on
18 Dec, 2025

Created by
Iqbal IDS Surabaya

Observation

Setelah dilakukan pengecekan berdasarkan analisa spectrum menunjukan pola khas indikasi misalignment pada 1-3x harmonic dan indikasi unbalance = 1x rpm amplitudo tinggi

Recommended action 1/1 - Other

Action
Other

Action status
Pending

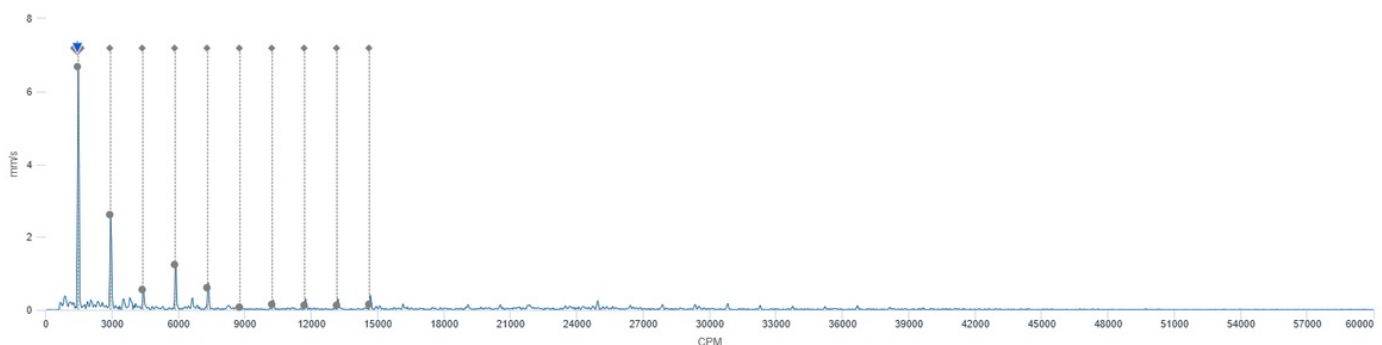
Work order number
-

Recommended due date
16 Jan, 2026

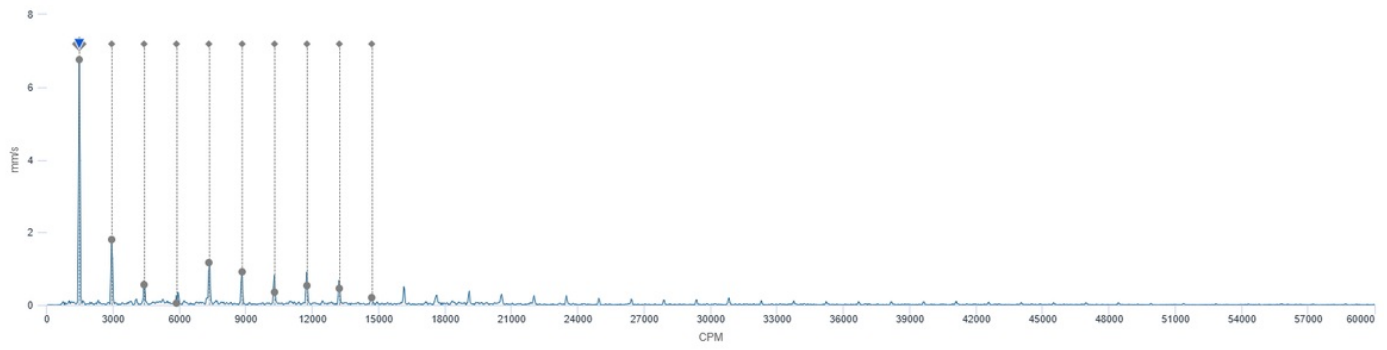
Additional comments

1. Lakukan pembersihan rotor/impeller; penumpukan kerak; dan periksa kelengkapan dan kekencangan baut/bilah.
2. Lakukan trim balancing (single atau dual plane sesuai kebutuhan). Ukur ulang setelahnya; targetkan $\geq 50-70\%$ pengurangan pada 1X.
3. Lakukan pengecekan alignment
4. Lakukan trend vibrasi pada band sekitar 1X (0,9–1,1X) dan alarm keseluruhan velocity

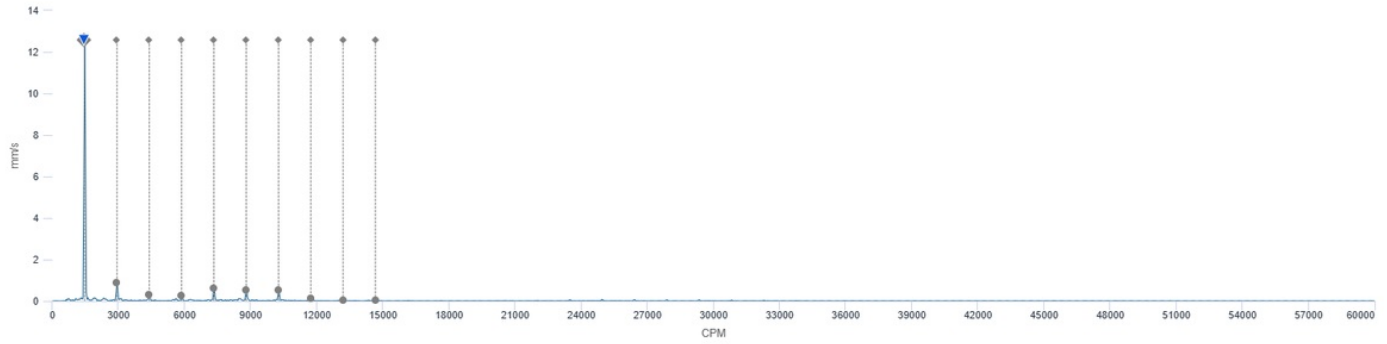
Images - 11



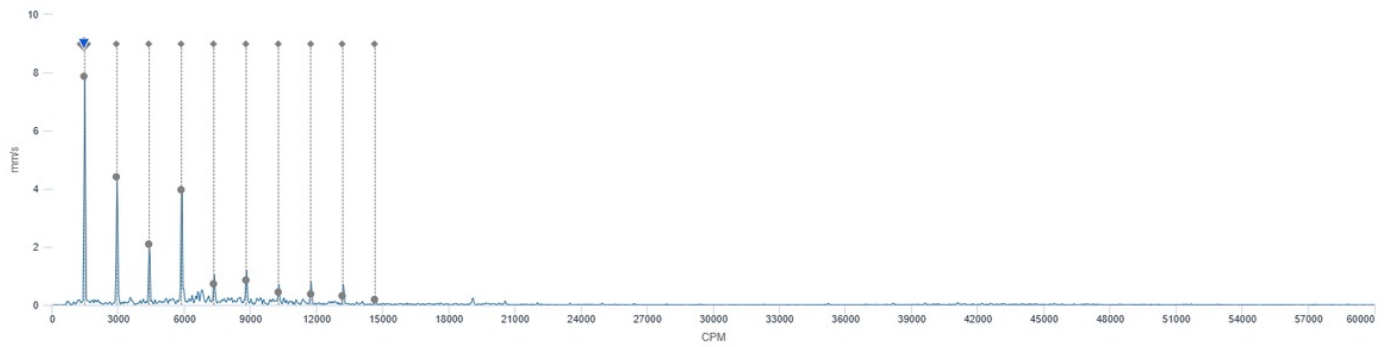
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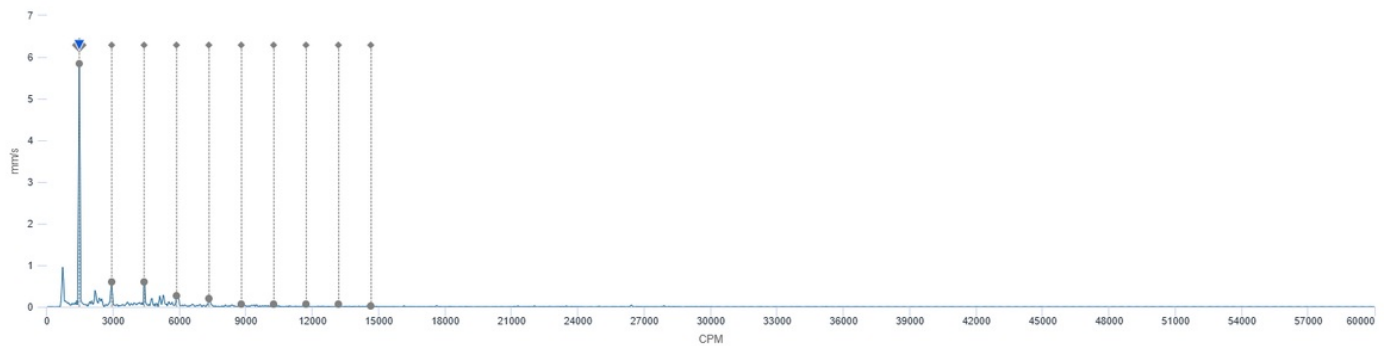
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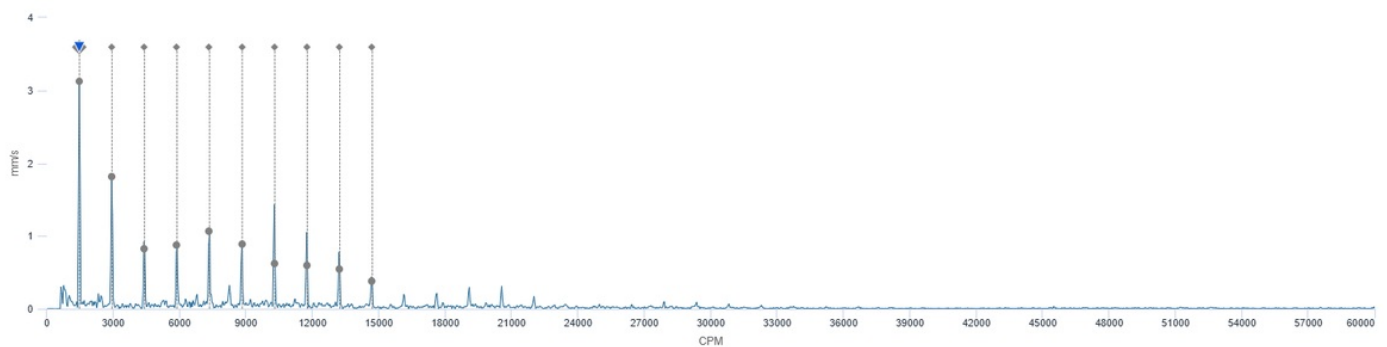
3. PT-Intidaya-Dinamika-Sejati_SB-2-SN--_01HV-Motor-DE_20251218_spectrum-chart



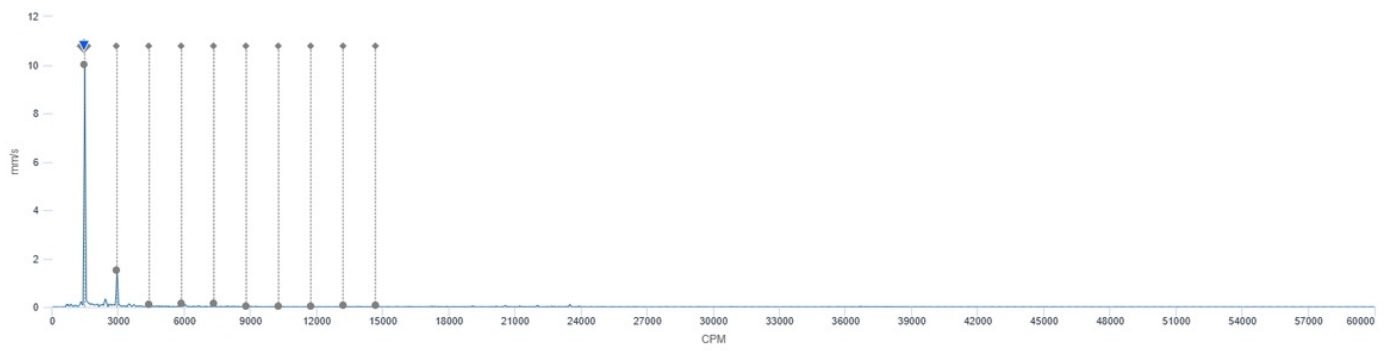
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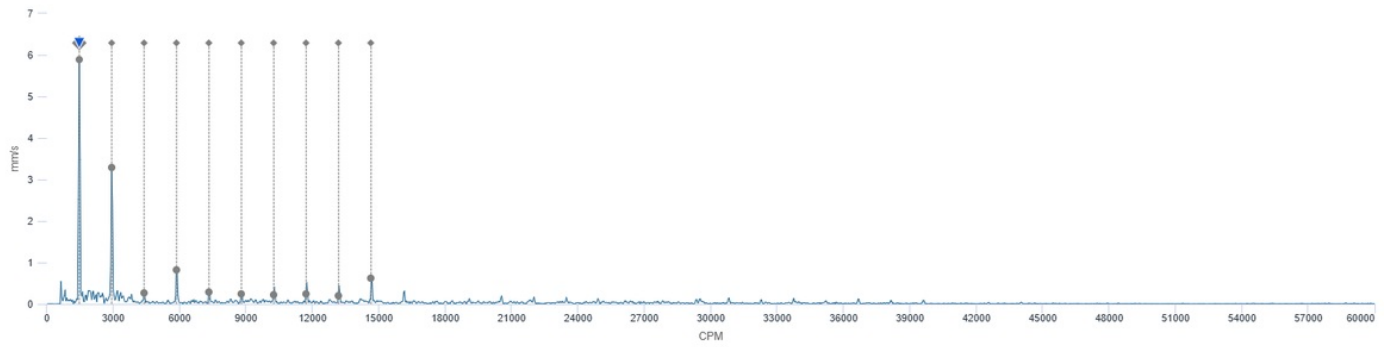
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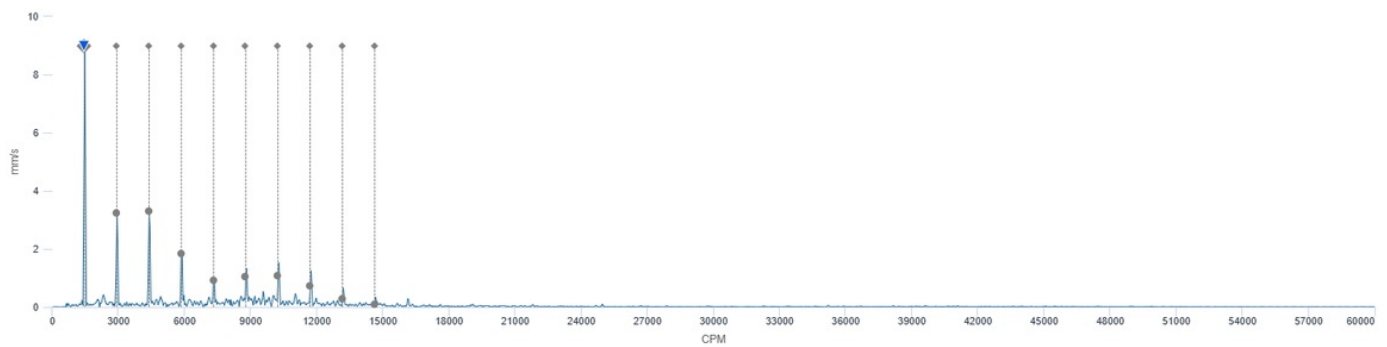
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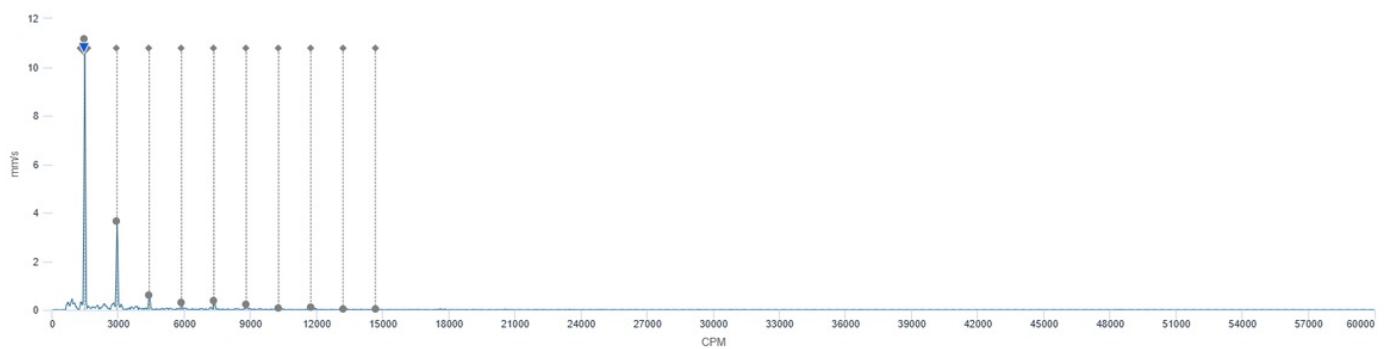
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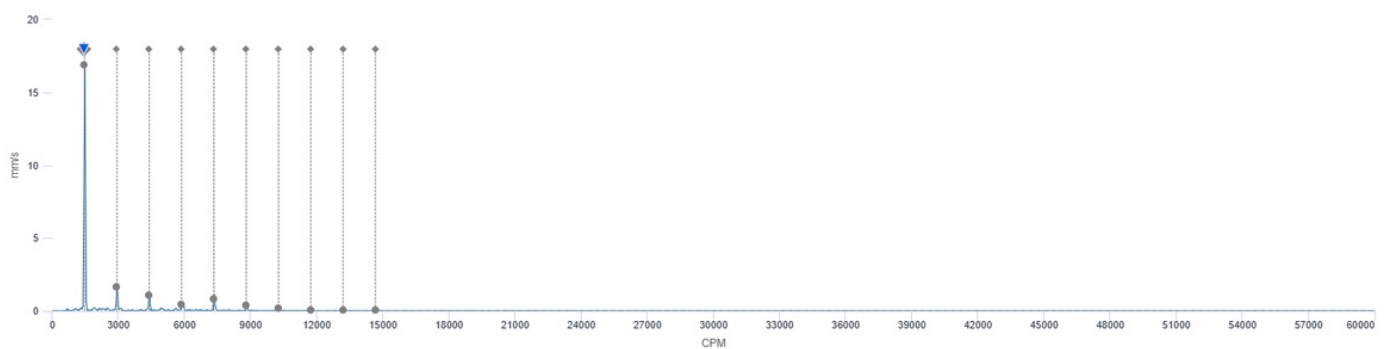
8. PT-Intidaya-Dinamika-Sejati_SB-2-SN--_04VV-Block-bearing-NDE_20251218_spectrum-chart



9. PT-Intidaya-Dinamika-Sejati_SB-2-SN--_04AV-Block-bearing-NDE_20251218_spectrum-chart



10. PT-Intidaya-Dinamika-Sejati_SB-2-SN--_01VV-Motor-DE_20251218_spectrum-chart



11. PT-Intidaya-Dinamika-Sejati_SB-2-SN--_02HV-Motor-NDE_20251218_spectrum-chart



PT. INTIDAYA DINAMIKA SEJATI

DATA TREND VIBRASI DAN ISO 10816-3



DATA TREND VIBRASI



PT INTIDAYA DINAMIKA SEJATI

TREND VIBRASI DAN TEMPERATUR FAN BLOWER



DATA CUSTOMER DAN FAN BLOWER

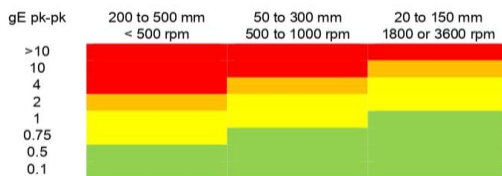
1	NAMA CUSTOMER	PT. MULTI SPUNINDO	SERIAL NUMBER	-	SPEED FAN BLOWER	1484	RPM
2	TANGGAL INSPECTION	10 DESEMBER 2025	APLIKASI	-	POWER MOTOR	132	KW
3	NOMOR PO	-	POWER MOTOR	132	AMPERE	-	A
4	NOMOR SO	-	DIAMETER PULLEY MOTOR	Direct Coupling	VACUUM / PRESSURE	-	mBar
5	MERK	STUTTIGART	DIAMETER PULLEY FAN BLOWER	Direct Coupling	DURATION	-	MENTIT
6	TYPE FAN BLOWER	CSB 1250	SPEED MOTOR	1484	JUMLAH V-BELT	Direct Coupling	PCS

NO.	VIBRASI DAN TEMPERATURE FAN BLOWER	RPM 1000			RPM 1484			INSPECTION III		
		Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C
1	AXIAL BLOCK BEARING DE	4,20	-	30,59	10,95	-	35,63	-	-	-
2	HORIZONTAL BLOCK BEARING DE	2,12	2,93	30,79	7,54	4,30	35,96	-	-	-
3	VERTICAL BLOCK BEARING DE	2,11	-	30,71	4,85	-	37,35	-	-	-
4	AXIAL BLOCK BEARING NDE	3,92	-	30,29	11,09	-	34,29	-	-	-
5	HORIZONTAL BLOCK BEARING NDE	2,39	8,57	30,19	7,67	6,24	34,55	-	-	-
6	VERTICAL BLOCK BEARING NDE	2,32	-	30,03	7,22	-	34,23	-	-	-
NO.	VIBRASI DAN TEMPERATURE MOTOR	RPM 1000			RPM 1484			INSPECTION III		
		Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C
1	HORIZONTAL NDE	3,87	5,00	30,51	17,27	6,63	34,15	-	-	-
2	VERTICAL NDE	1,97	-	30,65	6,11	-	34,89	-	-	-
3	AXIAL DE	6,44	-	29,97	10,18	-	35,13	-	-	-
4	HORIZONTAL DE	2,46	6,61	30,11	12,77	6,41	35,15	-	-	-
5	VERTICAL DE	3,13	-	29,99	11,96	-	33,55	-	-	-

ISO 10816-3

Machine Vibration Severity

Vibration Evaluation Standard per ISO 10816-3									
Group		Group 1		Group 2		Group 3		Group 4	
Machine type		Motors 315mm ≤ H large machines 300 kW < P < 60 MW		Motors 160mm ≤ H < 315mm medium sized machines 15 kW < P ≤ 300 kW		External driver		Integrated driver pumps > 15 kW radial, axial, mixed flow	
Foundation support		rigid	flexible	rigid	flexible	rigid	flexible	rigid	flexible
mm/s rms									
18		0.76							
11		0.46							
7.1		0.29							
4.5		0.19							
3.5		0.14							
2.8		0.12							
2.3		0.09							
1.4		0.05							
0.71		0.03							
		Frequency range:		10 Hz to 1000 Hz		Speed > 600 RPM			
				2 Hz to 1000 Hz		Speed > 120 RPM			
ZONE		D	Vibration values normally considered to be sufficient severity to cause damage to the machine.						
		C	Machine considered unsatisfactory for long-term continuous operation.						
		B	Machine considered acceptable for unrestricted long-term operation.						
		A	Vibration of newly commissioned machine.						



Technical Associates of Charlottes		Vibration Severity (mm/s RMS)	
Machine Type		Alarm 1 Warning	Alarm 2 Fault
Cooling Tower Drive			
Long, hollow drive shaft		11.0	16.0
Close coupled belt drive		7.5	12.0
Close coupled direct drive		5.5	8.0
Compressors			
Reciprocating		9.0	13.5
Rotary Screw		8.0	12.0
Centrifugal with or without external gearbox		6.5	8.0
Centrifugal-integral gear (axial meas.)		5.5	8.0
Centrifugal-integral gear (radial meas.)		4.5	6.5
Blowers (Fans)			
Lobe-type rotary		8.0	12.0
Belt-driven blower		7.5	11.5
General direct drive fans (with coupling)		6.5	10.0
Primary Air Fans		6.5	10.0
Vacuum blowers		5.5	8.0
Large Forced draft fans		5.5	8.0
Large Induced Draft Fans		5.0	7.5
Shaft mounted Integral Fans (extended motor shaft)		5.0	7.5
Vane-Axial Fans		4.5	6.5



PT. INTIDAYA DINAMIKA SEJATI

INSPEKSI REPORT FAN BLOWER

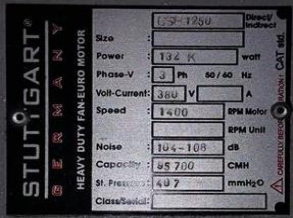
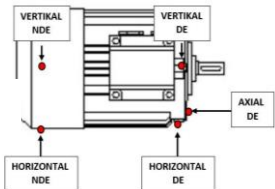


TANGGAL PENGECEKAN	10 DESEMBER 2025	NAMA USER	Bpk. Rengga
NAMA CUSTOMER	PT. MULTI SPUNINDO	ALAMAT EMAIL	
NOMOR PO	-	LOKASI	Sidoarjo
NOMOR SO	-	INSPEKTOR	Josefin

DATA FAN BLOWER

MERK FAN BLOWER BLOWER	STUTTART	POWER MOTOR / POLE	132 KW/4 POLE
TYPE FAN BLOWER	CSB1250/SB 3	INPUT VOLTAGE R/S/T	-
SERIAL NUMBER	-	AMPERE	-
APLIKASI	-	NOISE FAN BLOWER	-
DIAMETER PULLEY MOTOR	Dirrect Coupling	PRESSURE	-
DIAMETER PULLEY FAN BLOWER	Dirrect Coupling	TYPE/ JUMLAH V-BELT	Dirrect Coupling
SPEED MOTOR	1484	KAPASITAS OLI	-
SPEED FAN BLOWER	1484	TYPE OLI / VISKOSITAS	-

LAMPIRAN FOTO

																																																																			
Foto Nameplate Fan Blower	Overview Unit	Foto Nameplate Motor																																																																	
	<table><tr><th colspan="2">POSISI MOTOR</th><th>Velocity (mm/S)</th><th>Enveloped (gE)</th><th>TEMPERATURE (°C)</th></tr><tr><td>1</td><td>HORIZONTAL NDE</td><td>14,54</td><td>12,15</td><td>33,41</td></tr><tr><td>2</td><td>VERTICAL NDE</td><td>4,60</td><td>-</td><td>34,13</td></tr><tr><td>3</td><td>AXIAL DE</td><td>7,66</td><td>-</td><td>34,13</td></tr><tr><td>4</td><td>HORIZONTAL DE</td><td>10,01</td><td>3,74</td><td>39,05</td></tr><tr><td>5</td><td>VERTICAL DE</td><td>5,38</td><td>-</td><td>33,55</td></tr></table>	POSISI MOTOR		Velocity (mm/S)	Enveloped (gE)	TEMPERATURE (°C)	1	HORIZONTAL NDE	14,54	12,15	33,41	2	VERTICAL NDE	4,60	-	34,13	3	AXIAL DE	7,66	-	34,13	4	HORIZONTAL DE	10,01	3,74	39,05	5	VERTICAL DE	5,38	-	33,55	<table><tr><th colspan="2">POSISI FAN BLOWER</th><th>Velocity (mm/S)</th><th>Enveloped (gE)</th><th>TEMPERATURE (°C)</th></tr><tr><td>1</td><td>AXIAL BLOCK BEARING DE</td><td>3,78</td><td>-</td><td>36,31</td></tr><tr><td>2</td><td>HORIZONTAL BLOCK BEARING DE</td><td>5,65</td><td>2,63</td><td>39,27</td></tr><tr><td>3</td><td>VERTICAL BLOCK BEARING DE</td><td>2,92</td><td>-</td><td>39,75</td></tr><tr><td>4</td><td>AXIAL BLOCK BEARING NDE</td><td>6,18</td><td>-</td><td>37,01</td></tr><tr><td>5</td><td>HORIZONTAL BLOCK BEARING NDE</td><td>6,19</td><td>4,43</td><td>45,61</td></tr><tr><td>6</td><td>VERTICAL BLOCK BEARING NDE</td><td>2,50</td><td>-</td><td>44,99</td></tr></table>	POSISI FAN BLOWER		Velocity (mm/S)	Enveloped (gE)	TEMPERATURE (°C)	1	AXIAL BLOCK BEARING DE	3,78	-	36,31	2	HORIZONTAL BLOCK BEARING DE	5,65	2,63	39,27	3	VERTICAL BLOCK BEARING DE	2,92	-	39,75	4	AXIAL BLOCK BEARING NDE	6,18	-	37,01	5	HORIZONTAL BLOCK BEARING NDE	6,19	4,43	45,61	6	VERTICAL BLOCK BEARING NDE	2,50	-	44,99
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6	VERTICAL BLOCK BEARING NDE	2,50	-	44,99																																																															

KESIMPULAN

1. Setelah dilakukan pengecekan berdasarkan analisa spectrum menunjukan pola khas indikasi misalignment pada 1-3x harmonic dan indikasi unbalance = 1x rpm amplitudo tinggi
2. Lakukan pembersihan rotor/impeller; penumpukan kerak; dan periksa kelengkapan dan kekencangan baut/bilah.
3. Lakukan trim balancing (single atau dual plane sesuai kebutuhan). Ukur ulang setelahnya; targetkan $\geq 50-70\%$ pengurangan pada 1X.
4. Lakukan pengecekan alignment
5. Lakukan monitoring trend vibrasi dan temperature untuk meninjau kenaikan value vibrasi dan pola spectrum

MENGETAHUI	DI INSPEKSI	MENGETAHUI
83871907-5B8A-476A-A0F5-23CF4679DFB9	CD387190-1282-4307-8844-986287988131	
AHMADI	Josefin	
PRODUCT & SERVICE MANAGER	TEKNISIAN	PT. MULTI SPUNINDO

SB 3 SN -

1/1

PT Intidaya Dinamika Sejati/PT INTIDAYA DINAMIKA SEJATI/IDS SURABAYA/MULTI SPUNINDO JAYA TBK

● **Unacceptable**
18 Dec, 2025, 12:01

Criticality
Medium

No description

Reported since
collection
✓

Last collection
10 Dec, 2025

Asset status history

● **Unacceptable**
18 Dec, 2025

SB 3 SN - - F-001 1/1 - Other

Collection date
10 Dec, 2025

Condition monitoring technique
Vibration Analysis

Fault
Other

Severity
⚠ 8 Severe

Created on
18 Dec, 2025

Created by
Iqbal IDS Surabaya

Observation

Setelah dilakukan pengecekan berdasarkan analisa spectrum menunjukan pola khas indikasi misalignment pada 1-3x harmonic dan indikasi unbalance = 1x rpm amplitudo tinggi

Recommended action 1/1 - Other

Action
Other

Action status
Pending

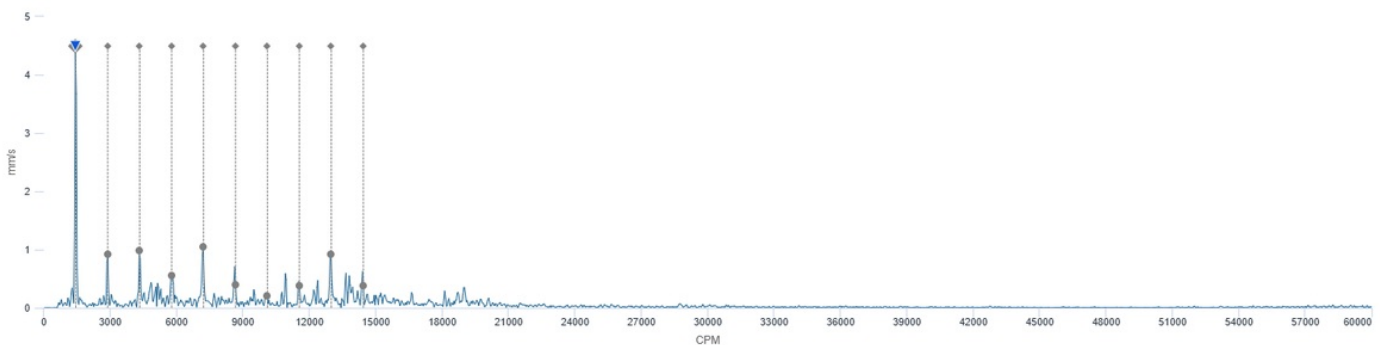
Work order number
-

Recommended due date
16 Jan, 2026

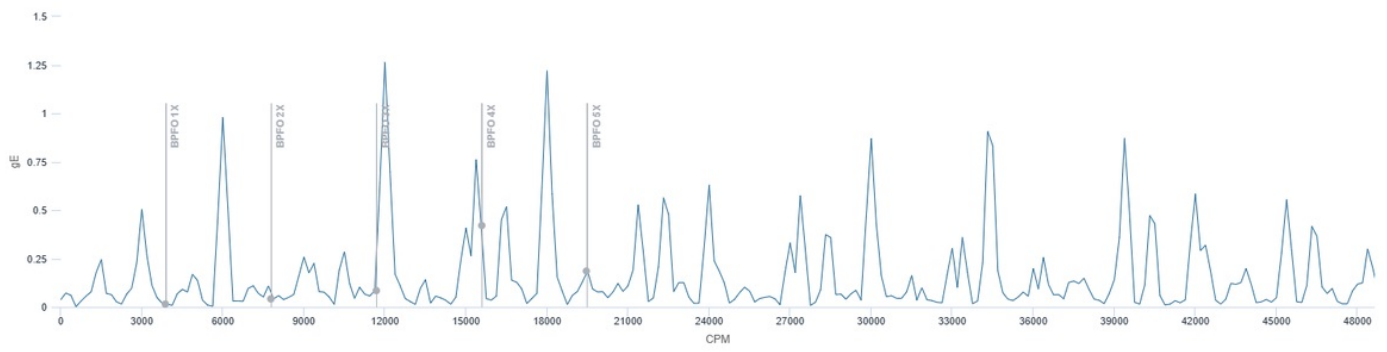
Additional comments

1. Lakukan pembersihan rotor/impeller; penumpukan kerak; dan periksa kelengkapan dan kekencangan baut/bilah.
2. Lakukan trim balancing (single atau dual plane sesuai kebutuhan). Ukur ulang setelahnya; targetkan $\geq 50-70\%$ pengurangan pada 1X.
3. Lakukan pengecekan alignment
4. Lakukan trend vibrasi pada band sekitar 1X (0,9–1,1X) dan alarm keseluruhan velocity

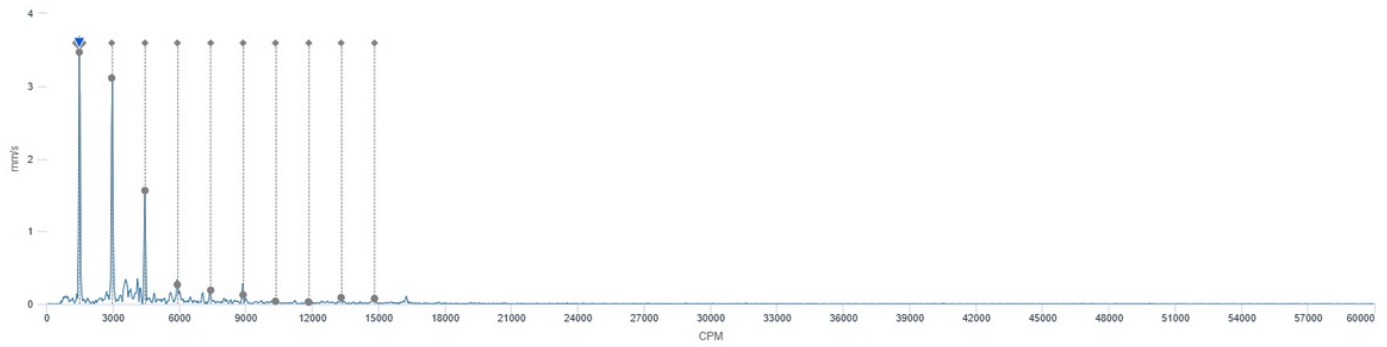
Images - 9



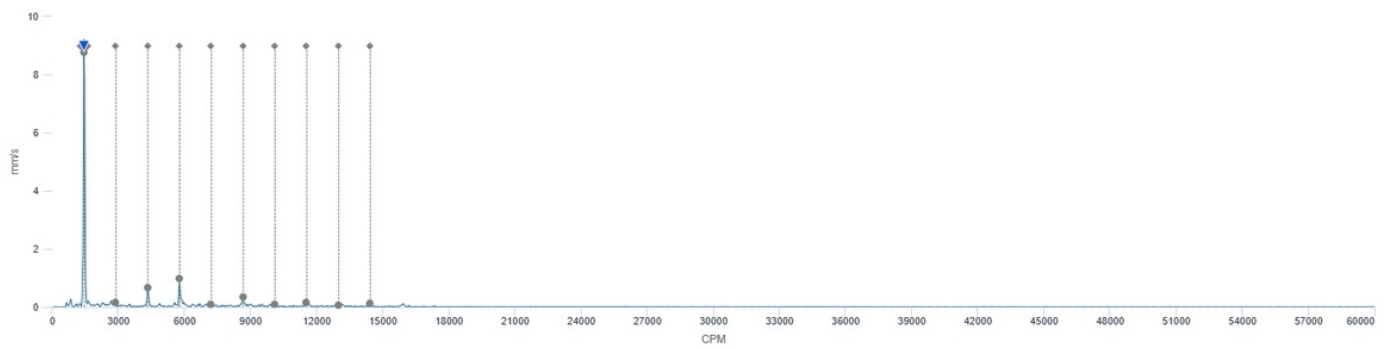
1. PT-Intidaya-Dinamika-Sejati_SB-3-SN--_04AV-Block-bearing-NDE_20251218_spectrum-chart



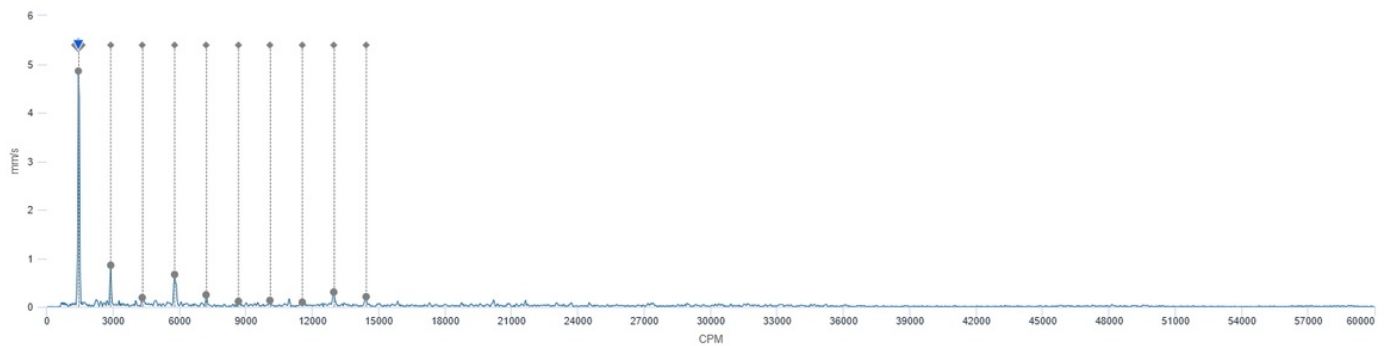
2. PT-Intidaya-Dinamika-Sejati_SB-3-SN--_02HE3-Motor-NDE_20251218_spectrum-chart



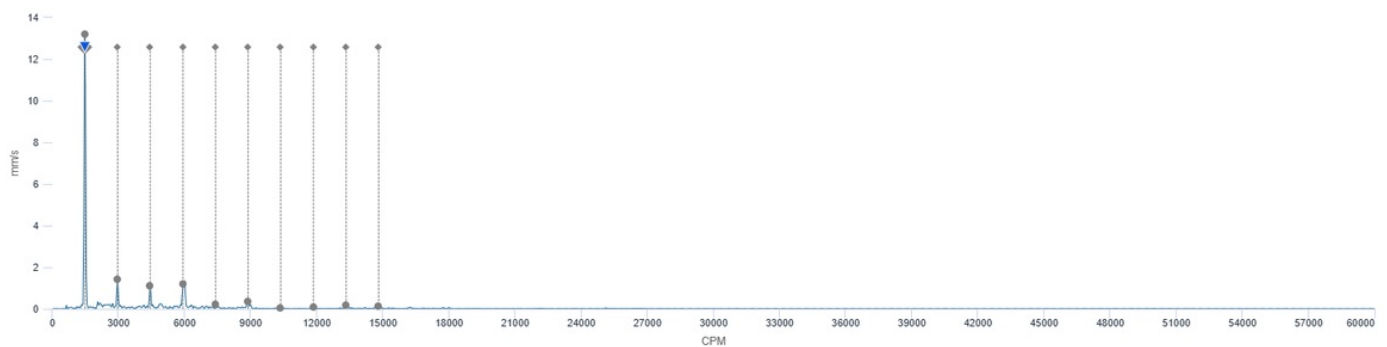
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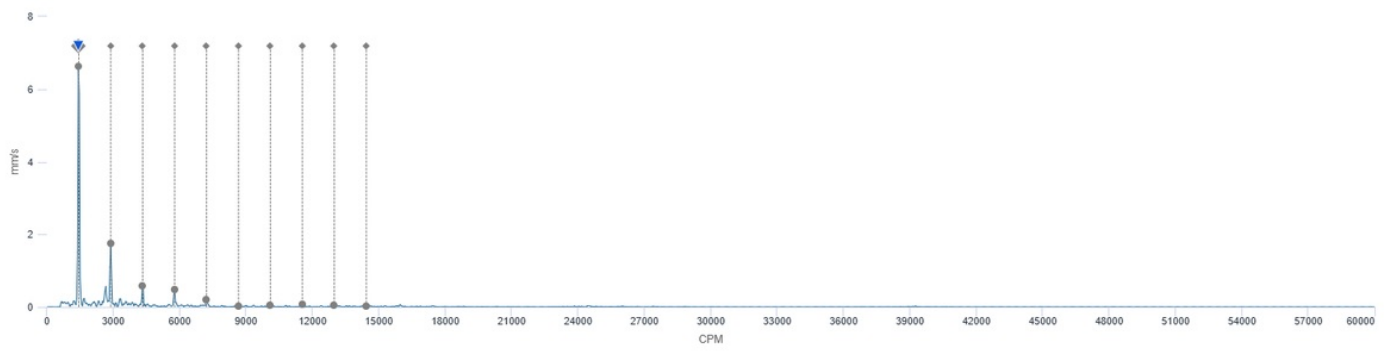
4. PT-Intidaya-Dinamika-Sejati_SB-3-SN--_01HV-Motor-DE_20251218_spectrum-chart



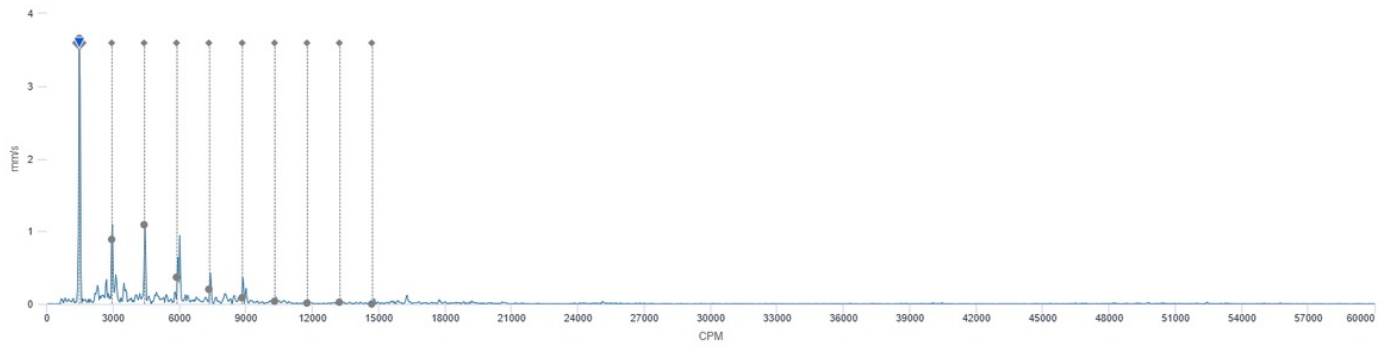
5. PT-Intidaya-Dinamika-Sejati_SB-3-SN--_03HV-Block-bearing-DE_20251218_spectrum-chart



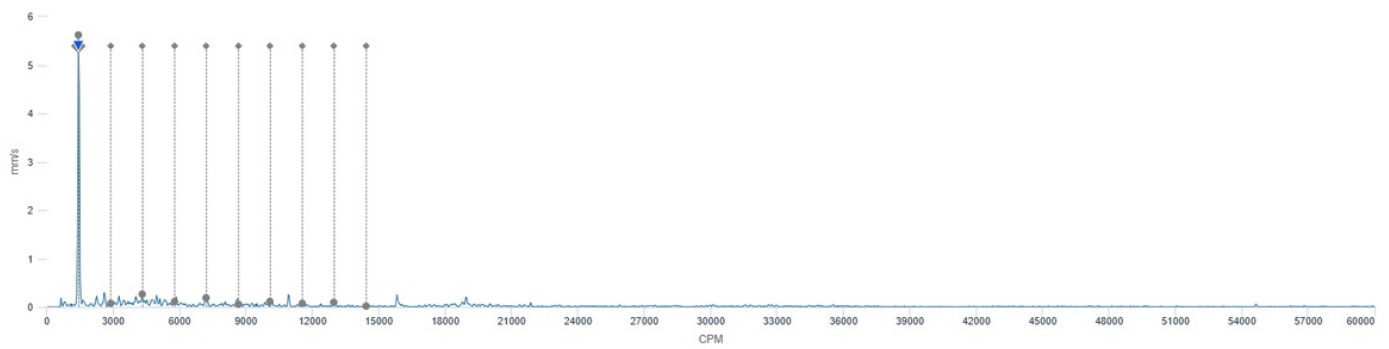
6. PT-Intidaya-Dinamika-Sejati_SB-3-SN--_02HV-Motor-NDE_20251218_spectrum-chart



7. PT-Intidaya-Dinamika-Sejati_SB-3-SN--_01AV-Motor-DE_20251218_spectrum-chart



8. PT-Intidaya-Dinamika-Sejati_SB-3-SN--_02VV-Motor-NDE_20251218_spectrum-chart



9. PT-Intidaya-Dinamika-Sejati_SB-3-SN--_04HV-Block-bearing-NDE_20251218_spectrum-chart



PT. INTIDAYA DINAMIKA SEJATI

DATA TREND VIBRASI DAN ISO 10816-3



DATA TREND VIBRASI



PT INTIDAYA DINAMIKA SEJATI

TREND VIBRASI DAN TEMPERATUR FAN BLOWER



DATA CUSTOMER DAN FAN BLOWER

1	NAMA CUSTOMER		PT. MULTI SPUNINDO		SERIAL NUMBER		-		SPEED FAN BLOWER		1484		RPM	
2	TANGGAL INSPECTION		10 DESEMBER 2025		APLIKASI		-		POWER MOTOR		123		KW	
3	NOMOR PO		-		POWER MOTOR		132		AMPERE		-		A	
4	NOMOR SO		-		DIAMETER PULLY MOTOR		Dirrect Coupling		VACUUM / PRESSURE		-		mBar	
5	MERK		STUTT GART		DIAMETER PULLY FAN BLOWER		Dirrect Coupling		DURATION		-		MENIT	
6	TYPE FAN BLOWER		CSB 1250		SPEED MOTOR		1484		JUMLAH V-BELT		Dirrect Coupling		PCS	
NO.	VIBRASI DAN TEMPERATURE FAN BLOWER		RPM 1000			RPM 1484			INSPECTION III					
			Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C			
1	AXIAL BLOCK BEARING DE		2,10	-	31,19	3,78	-	36,31	-	-	-			
2	HORIZONTAL BLOCK BEARING DE		0,99	3,91	31,71	5,65	2,63	39,27	-	-	-			
3	VERTICAL BLOCK BEARING DE		1,73	-	31,75	2,92	-	39,75	-	-	-			
4	AXIAL BLOCK BEARING NDE		2,32	-	31,99	6,18	-	37,01	-	-	-			
5	HORIZONTAL BLOCK BEARING NDE		1,34	16,04	33,83	6,19	4,43	45,61	-	-	-			
6	VERTICAL BLOCK BEARING NDE		1,32	-	32,89	2,50	-	44,99	-	-	-			
NO.	VIBRASI DAN TEMPERATURE MOTOR		RPM 1000			RPM 1484			INSPECTION III					
			Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C	Velocity mm/s	Enveloped gE	Temp °C			
1	HORIZONTAL NDE		2,45	6,18	30,73	14,54	12,15	33,41	-	-	-			
2	VERTICAL NDE		1,36	-	30,39	4,60	-	34,13	-	-	-			
3	AXIAL DE		2,63	-	29,75	7,66	-	34,13	-	-	-			
4	HORIZONTAL DE		2,47	3,33	31,67	10,01	3,74	39,05	-	-	-			
5	VERTICAL DE		2,13	-	29,77	5,38	-	33,55	-	-	-			

ISO 10816-3

Machine Vibration Severity

Vibration Evaluation Standard per ISO 10816-3									
Group		Group 1		Group 2		Group 3		Group 4	
Machine type		Motors 315mm ≤ H large machines 300 kW < P ≤ 50 MW		Motors 160mm ≤ H < 315mm medium sized machines 15 kW < P ≤ 300 kW		External driver pumps > 15 kW radial, axial, mixed flow		Integrated driver	
Foundation support		rigid		flexible		rigid		flexible	
mm/s rms	in/s rms								
18	0.76								
11	0.48								
7.1	0.29								
4.5	0.19								
3.5	0.14								
2.8	0.12								
2.3	0.09								
1.4	0.05								
0.71	0.03								
		Frequency range:		10 Hz to 1000 Hz		Speed > 600 RPM		2 Hz to 1000 Hz	
						Speed > 120 RPM			
ZONE		D		Vibration values normally considered to be sufficient severity to cause damage to the machine.					
		C		Machine considered unsatisfactory for long-term continuous operation.					
		B		Machine considered acceptable for unrestricted long-term operation.					
		A		Vibration of newly commissioned machine.					

gE pk-pk	200 to 500 mm < 500 rpm	50 to 300 mm 500 to 1000 rpm	20 to 150 mm 1800 or 3600 rpm
>10			
10			
4			
2			
1			
0.75			
0.5			
0.1			

Technical Associates of Charlottes		Vibration Severity (mm/s RMS)	
Machine Type		Alarm 1 Warning	Alarm 2 Fault
Cooling Tower Drive			
Long, hollow drive shaft		11.0	16.0
Close coupled belt drive		7.5	12.0
Close coupled direct drive		5.5	8.0
Compressors			
Reciprocating		9.0	13.5
Rotary Screw		8.0	12.0
Centrifugal with or without external gearbox		6.5	8.0
Centrifugal-integral gear (axial meas.)		5.5	8.0
Centrifugal-integral gear (radial meas.)		4.5	6.5
Blowers (Fans)			
Lobe-type rotary		8.0	12.0
Belt-driven blower		7.5	11.5
General direct drive fans (with coupling)		6.5	10.0
Primary Air Fans		6.5	10.0
Vacuum blowers		5.5	8.0
Large Forced draft fans		5.5	8.0
Large Induced Draft Fans		5.0	7.5
Shaft mounted Integral Fans (extended motor shaft)		5.0	7.5
Vane-Axial Fans		4.5	6.5

