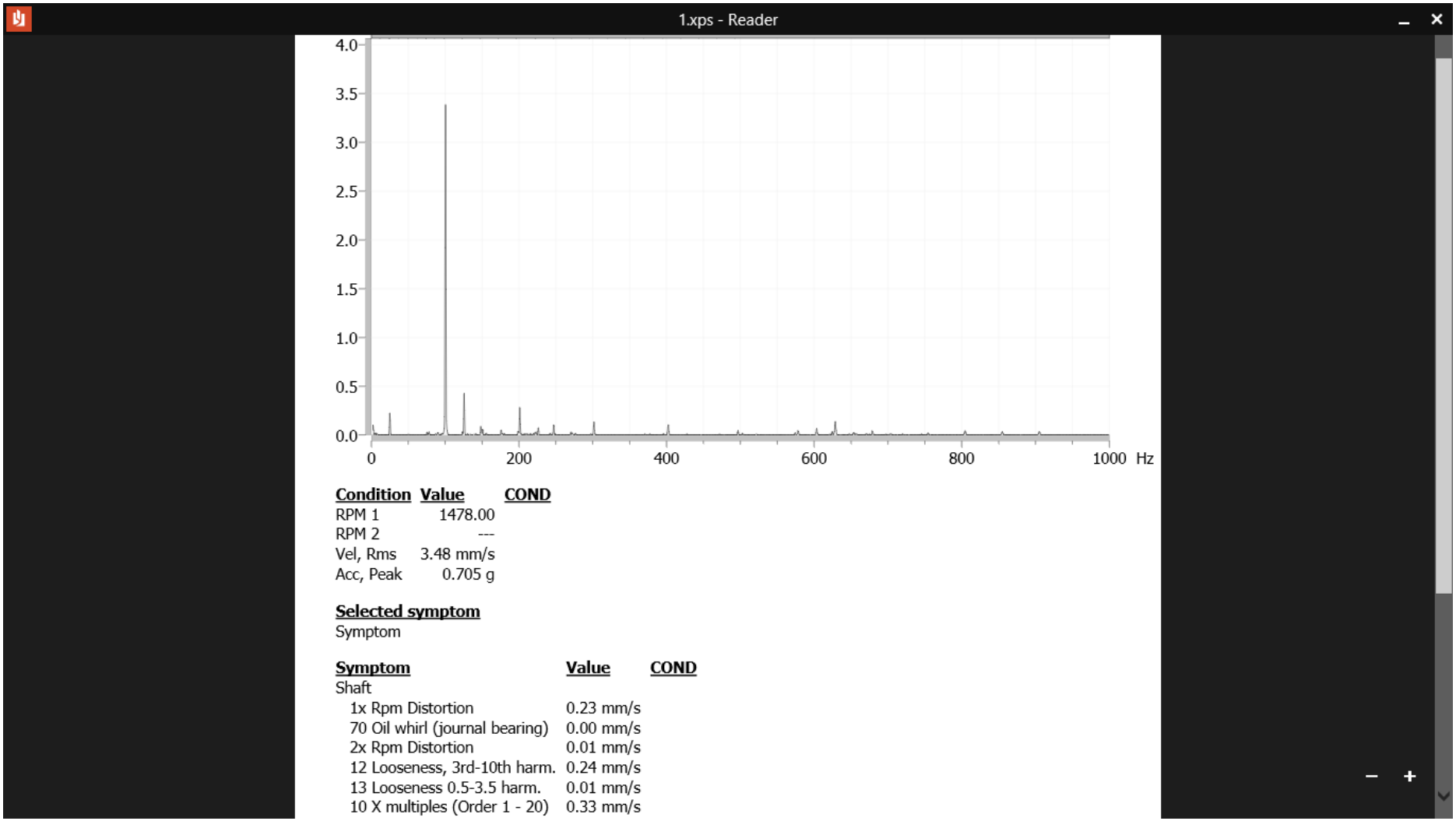
1. DE – horizontal (during excitation and load)

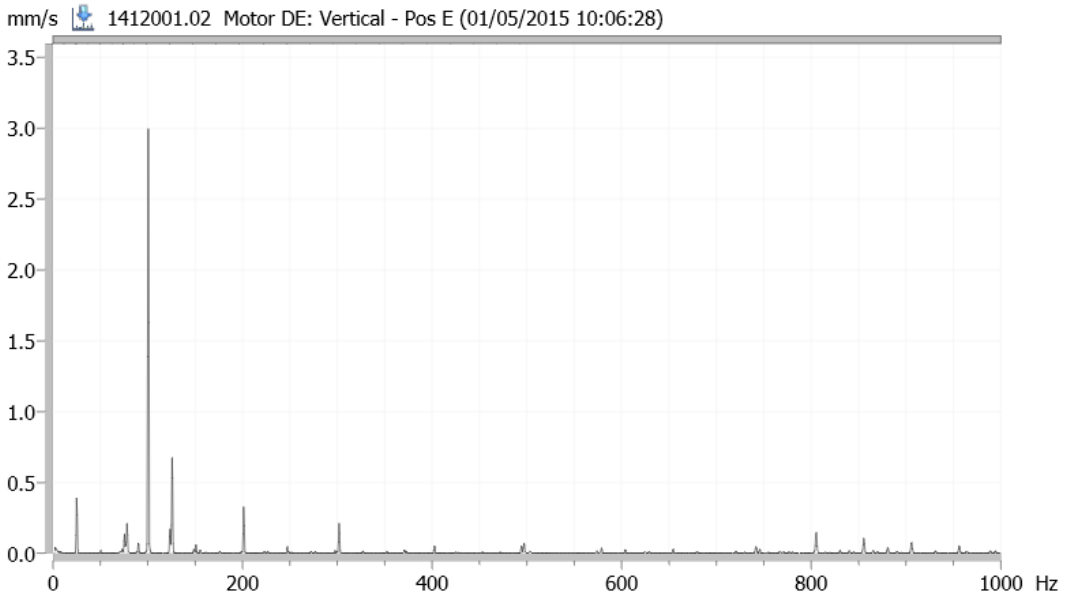


Condition	Value	COND
RPM 1	1478.00	
RPM 2	---	
Vel, Rms	3.48 mm/s	
Acc, Peak	0.705 g	

Selected symptom
Symptom

Symptom	Value	COND
Shaft		
1x Rpm Distortion	0.23 mm/s	
70 Oil whirl (journal bearing)	0.00 mm/s	
2x Rpm Distortion	0.01 mm/s	
12 Looseness, 3rd-10th harm.	0.24 mm/s	
13 Looseness 0.5-3.5 harm.	0.01 mm/s	
10 X multiples (Order 1 - 20)	0.33 mm/s	

2. DE – vertical (during excitation and load)

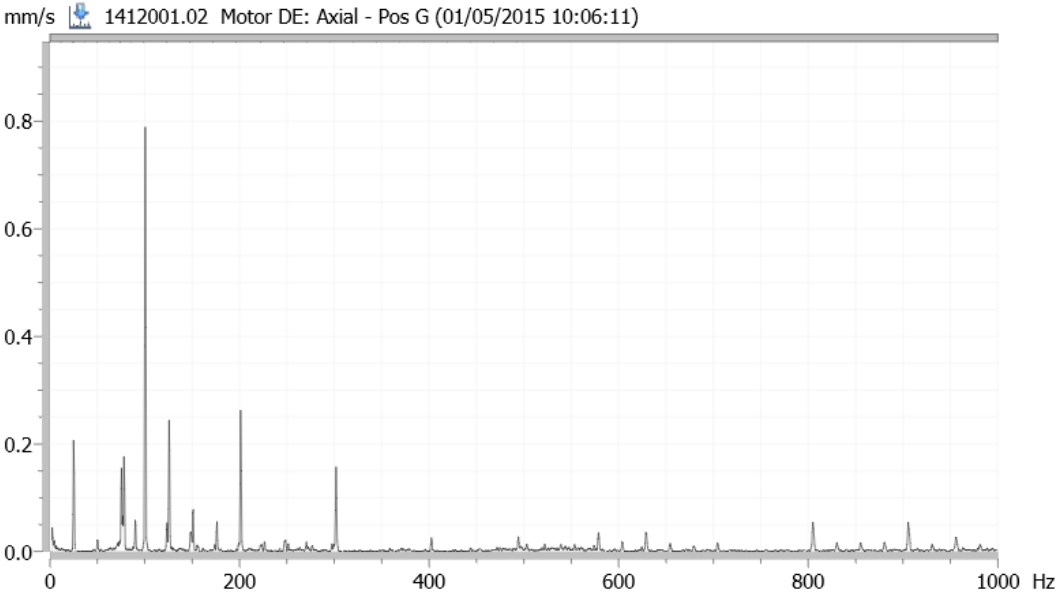


Condition	Value	COND
RPM 1	1478.00	
RPM 2	---	
Vel, Rms	3.18 mm/s	

Selected symptom
Symptom

Symptom	Value	COND
Shaft		
1x Rpm Distortion	0.39 mm/s	
70 Oil whirl (journal bearing)	0.01 mm/s	
2x Rpm Distortion	0.04 mm/s	
12 Looseness, 3rd-10th harm.	0.20 mm/s	
13 Looseness 0.5-3.5 harm.	0.01 mm/s	
10 X multiples (Order 1 - 20)	0.45 mm/s	

3. DE – axial (during excitation and load)



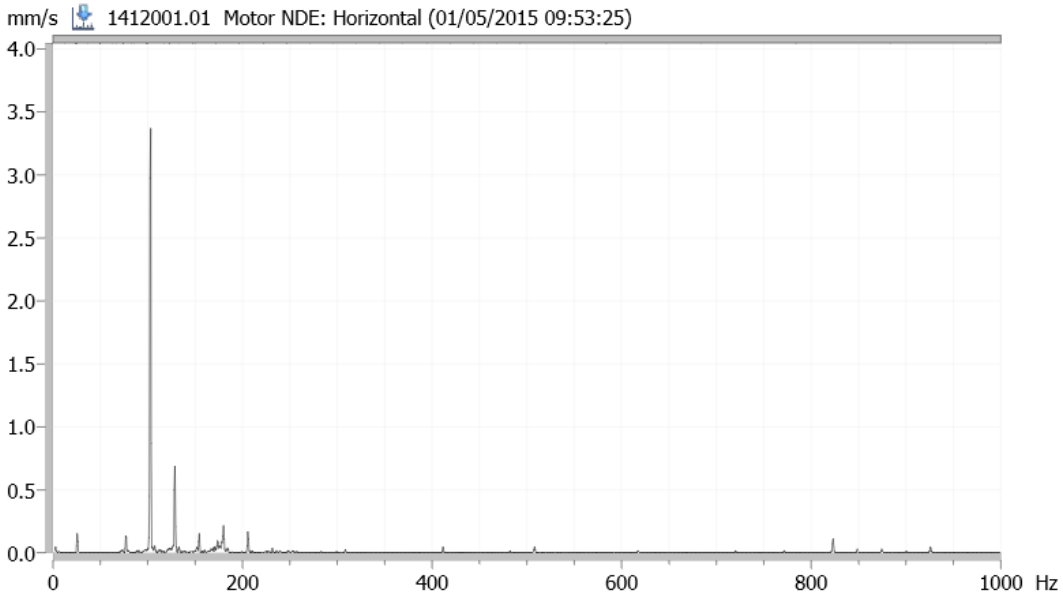
Condition	Value	COND
RPM 1	1478.00	
RPM 2	---	
Vel, Rms	0.98 mm/s	

Selected symptom
Symptom

Symptom	Value	COND
Shaft		
1x Rpm Distortion	0.21 mm/s	
70 Oil whirl (journal bearing)	0.01 mm/s	
2x Rpm Distortion	0.03 mm/s	
12 Looseness, 3rd-10th harm.	0.08 mm/s	
13 Looseness 0.5-3.5 harm.	0.01 mm/s	
10 X multiples (Order 1 - 20)	0.22 mm/s	

4. NDE – horizontal (during excitation and load)

1 1



Condition	Value	COND
RPM 1	1478.00	
RPM 2	---	
Vel, Rms	3.86 mm/s	

Selected symptom

Symptom

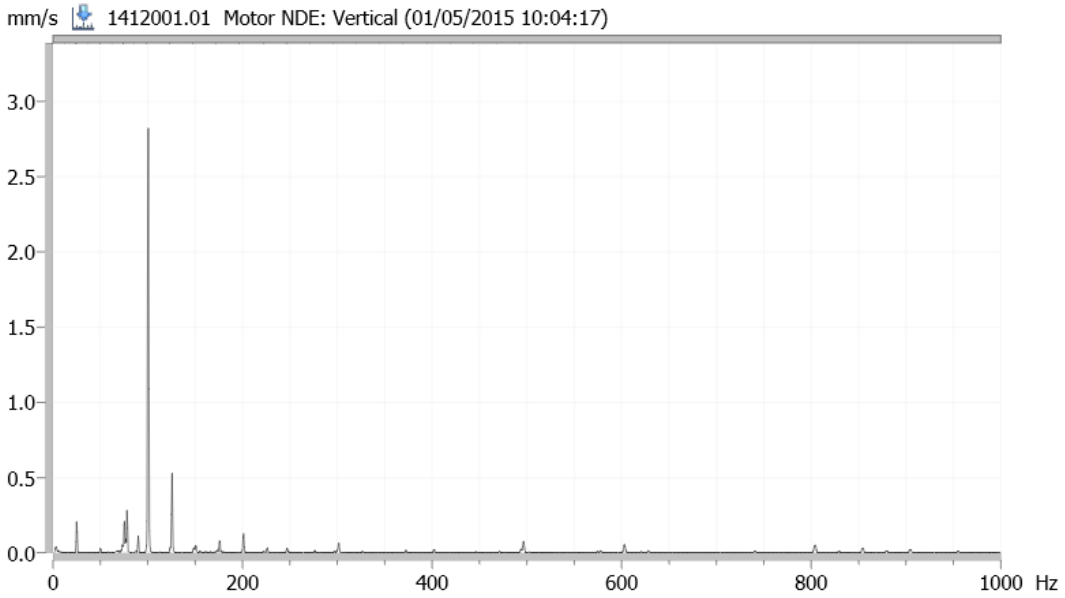
Symptom	Value	COND
Shaft		
1x Rpm Distortion	0.15 mm/s	
2x Rpm Distortion	0.02 mm/s	
12 Looseness, 3rd-10th harm.	0.08 mm/s	
13 Looseness 0.5-3.5 harm.	0.00 mm/s	
10 X multiples (Order 1 - 20)	0.17 mm/s	
Induction motor		

− +

Induction motor

36	Rotor bar fault, 50 Hz	0.03 mm/s
34	Rotor fault, 50 Hz	0.18 mm/s
32	Eccentric rotor, 50 Hz	4.50 mm/s
30	Eccentric stator, 50 Hz	0.03 mm/s
38	Loose connector, 50/60 Hz	0.05 mm/s

5. NDE – vertical (during excitation and load)

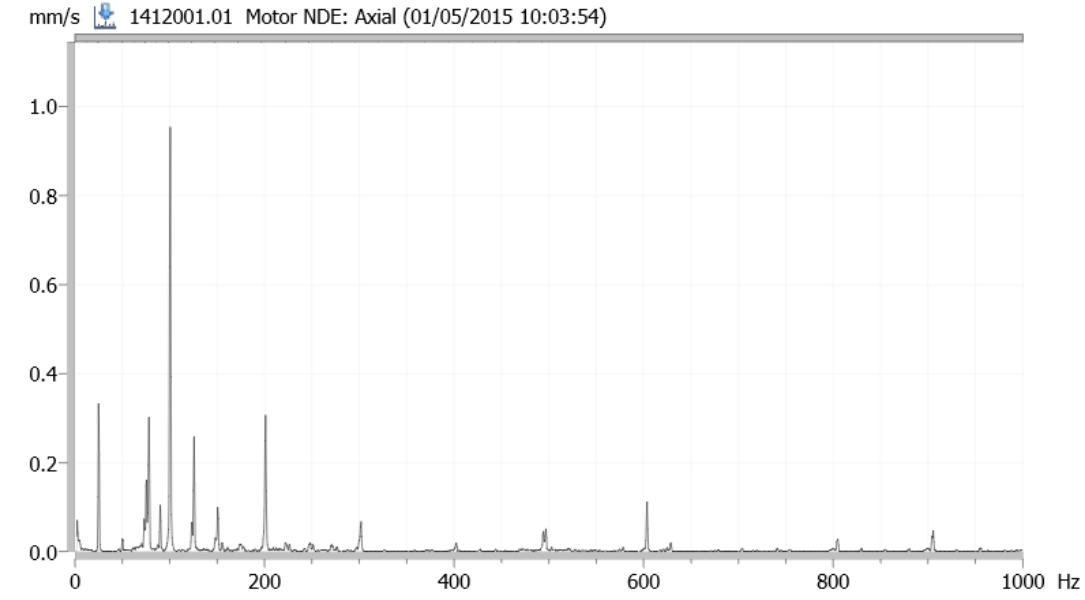


Condition	Value	COND
RPM 1	1478.00	
RPM 2	---	
Vel, Rms	2.99 mm/s	

Selected symptom
Symptom

Symptom	Value	COND
Shaft		
1x Rpm Distortion	0.21 mm/s	
2x Rpm Distortion	0.06 mm/s	
12 Looseness, 3rd-10th harm.	0.23 mm/s	
13 Looseness 0.5-3.5 harm.	0.01 mm/s	
10 X multiples (Order 1 - 20)	0.31 mm/s	

6. NDE – axial (during excitation and load)



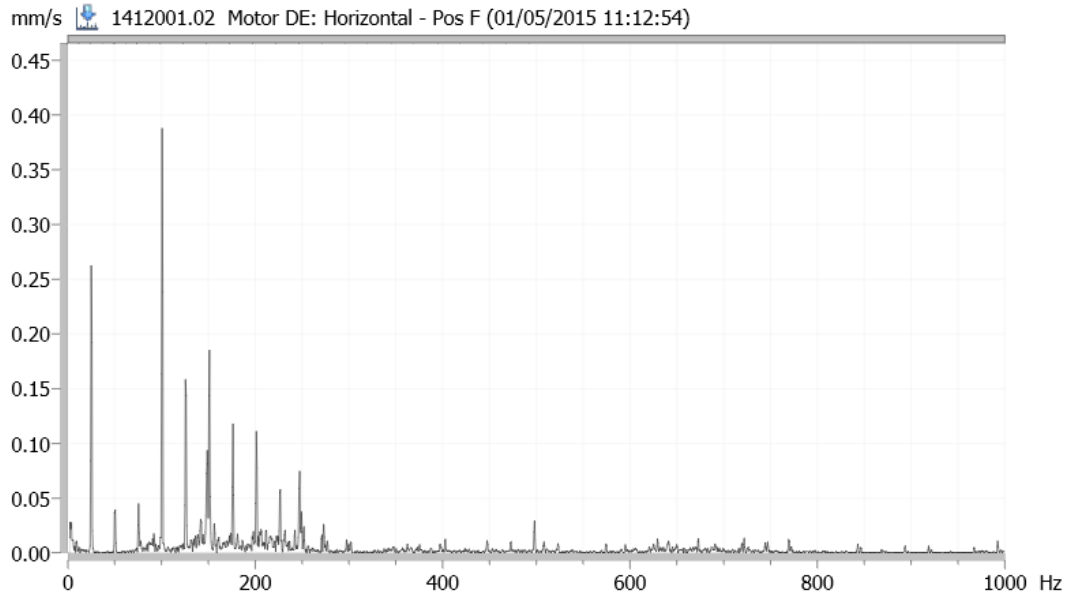
Condition	Value	COND
RPM 1	1478.00	
RPM 2	---	
Vel, Rms	1.25 mm/s	

Selected symptom
Symptom

Symptom	Value	COND
Shaft		
1x Rpm Distortion	0.33 mm/s	
2x Rpm Distortion	0.08 mm/s	
12 Looseness, 3rd-10th harm.	0.17 mm/s	
13 Looseness 0.5-3.5 harm.	0.02 mm/s	
10 X multiples (Order 1 - 20)	0.38 mm/s	

7. DE – horizontal (free run without excitation)

1 1

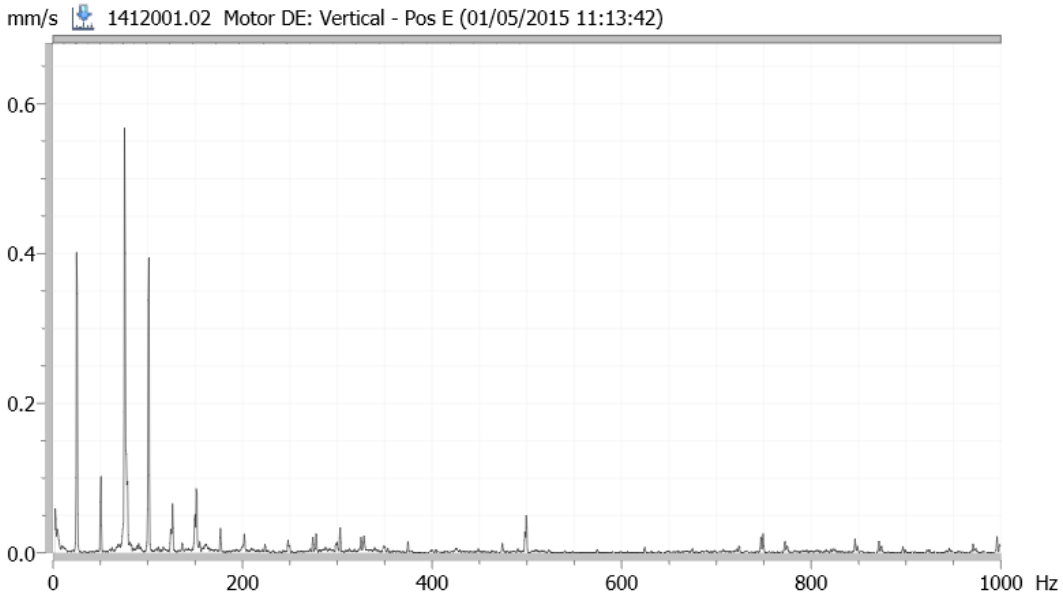


Condition	Value	COND
RPM 1	1478.00	
RPM 2	---	
Vel, Rms	0.62 mm/s	
Acc, Peak	0.209 g	

Symptom	Value	COND
Shaft		
1x Rpm Distortion	0.26 mm/s	
70 Oil whirl (journal bearing)	0.01 mm/s	
2x Rpm Distortion	0.04 mm/s	
12 Looseness, 3rd-10th harm.	0.12 mm/s	
13 Looseness 0.5-3.5 harm.	0.01 mm/s	
10 X multiples (Order 1 - 20)	0.29 mm/s	

– +

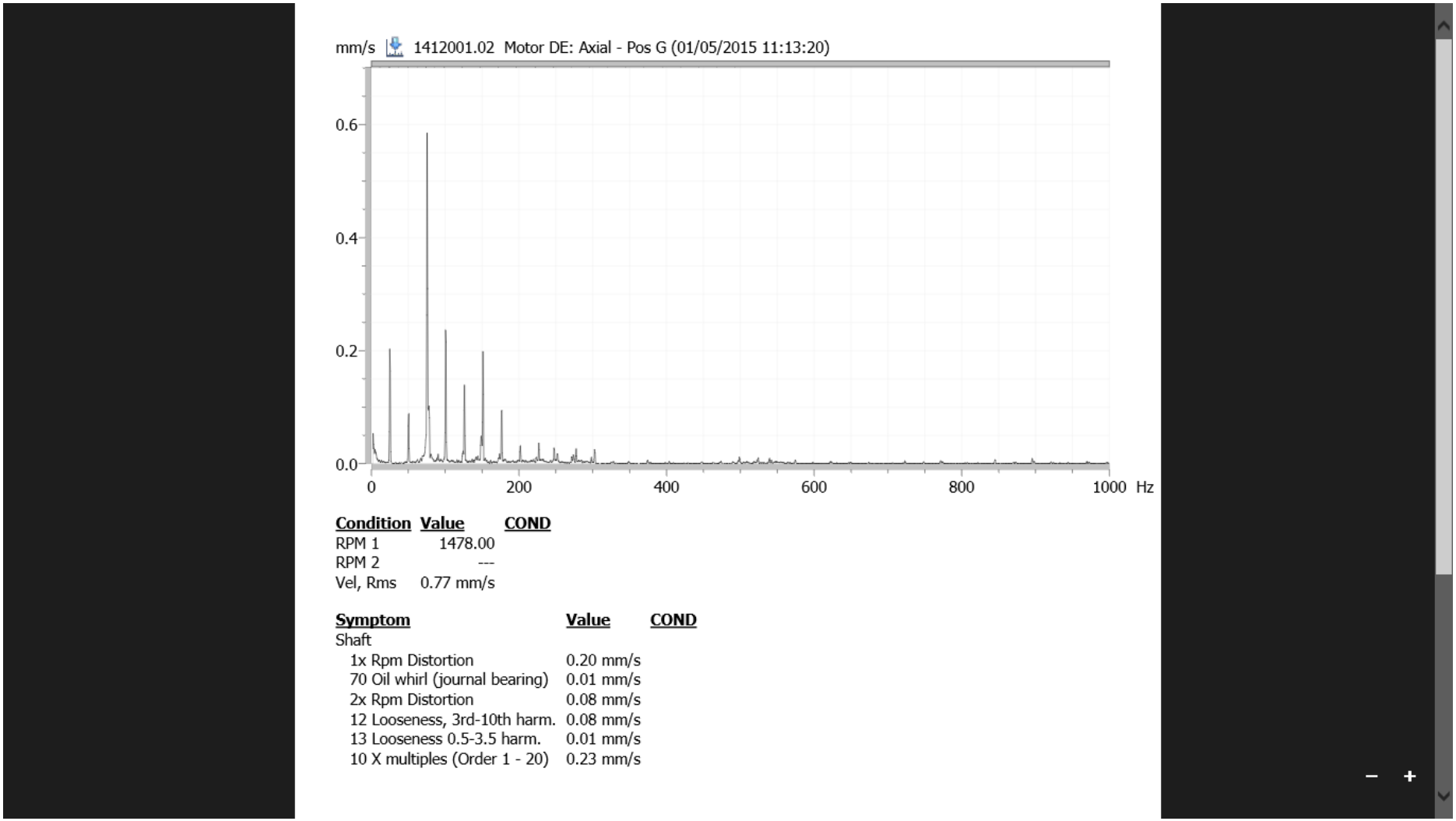
8. DE – vertical (free run without excitation)



Condition	Value	COND
RPM 1	1478.00	
RPM 2	---	
Vel, Rms	0.91 mm/s	

Symptom	Value	COND
Shaft		
1x Rpm Distortion	0.40 mm/s	
70 Oil whirl (journal bearing)	0.01 mm/s	
2x Rpm Distortion	0.08 mm/s	
12 Looseness, 3rd-10th harm.	0.06 mm/s	
13 Looseness 0.5-3.5 harm.	0.01 mm/s	
10 X multiples (Order 1 - 20)	0.41 mm/s	

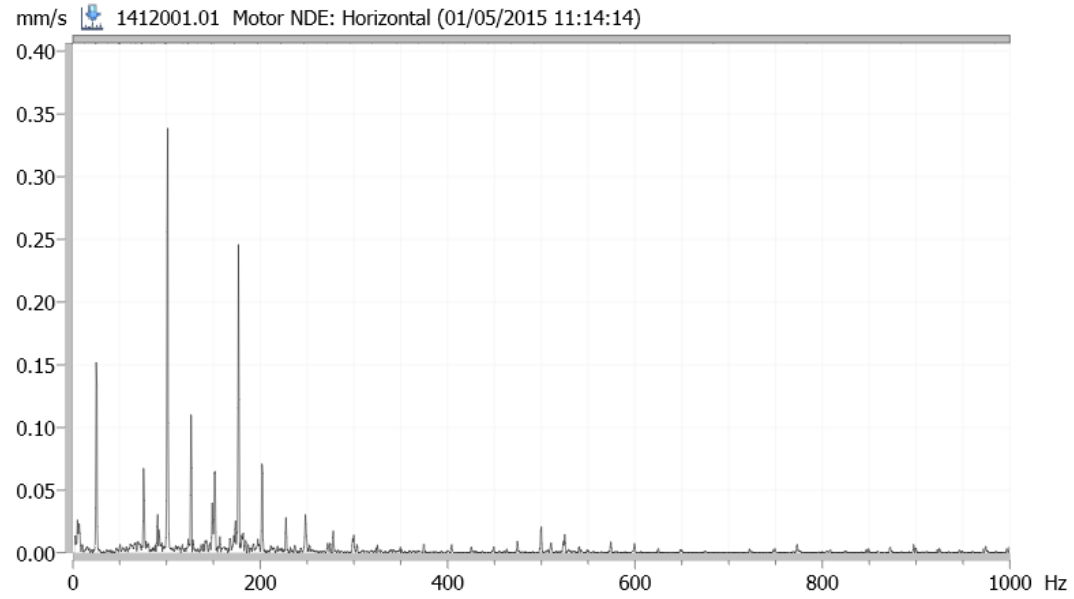
9. DE – axial (free run without excitation)



Condition	Value	COND
RPM 1	1478.00	
RPM 2	---	
Vel, Rms	0.77 mm/s	

Symptom	Value	COND
Shaft		
1x Rpm Distortion	0.20 mm/s	
70 Oil whirl (journal bearing)	0.01 mm/s	
2x Rpm Distortion	0.08 mm/s	
12 Looseness, 3rd-10th harm.	0.08 mm/s	
13 Looseness 0.5-3.5 harm.	0.01 mm/s	
10 X multiples (Order 1 - 20)	0.23 mm/s	

10. NDE – horizontal (free run without excitation)



Condition	Value	COND
RPM 1	1478.00	
RPM 2	---	
Vel, Rms	0.51 mm/s	

Selected symptom

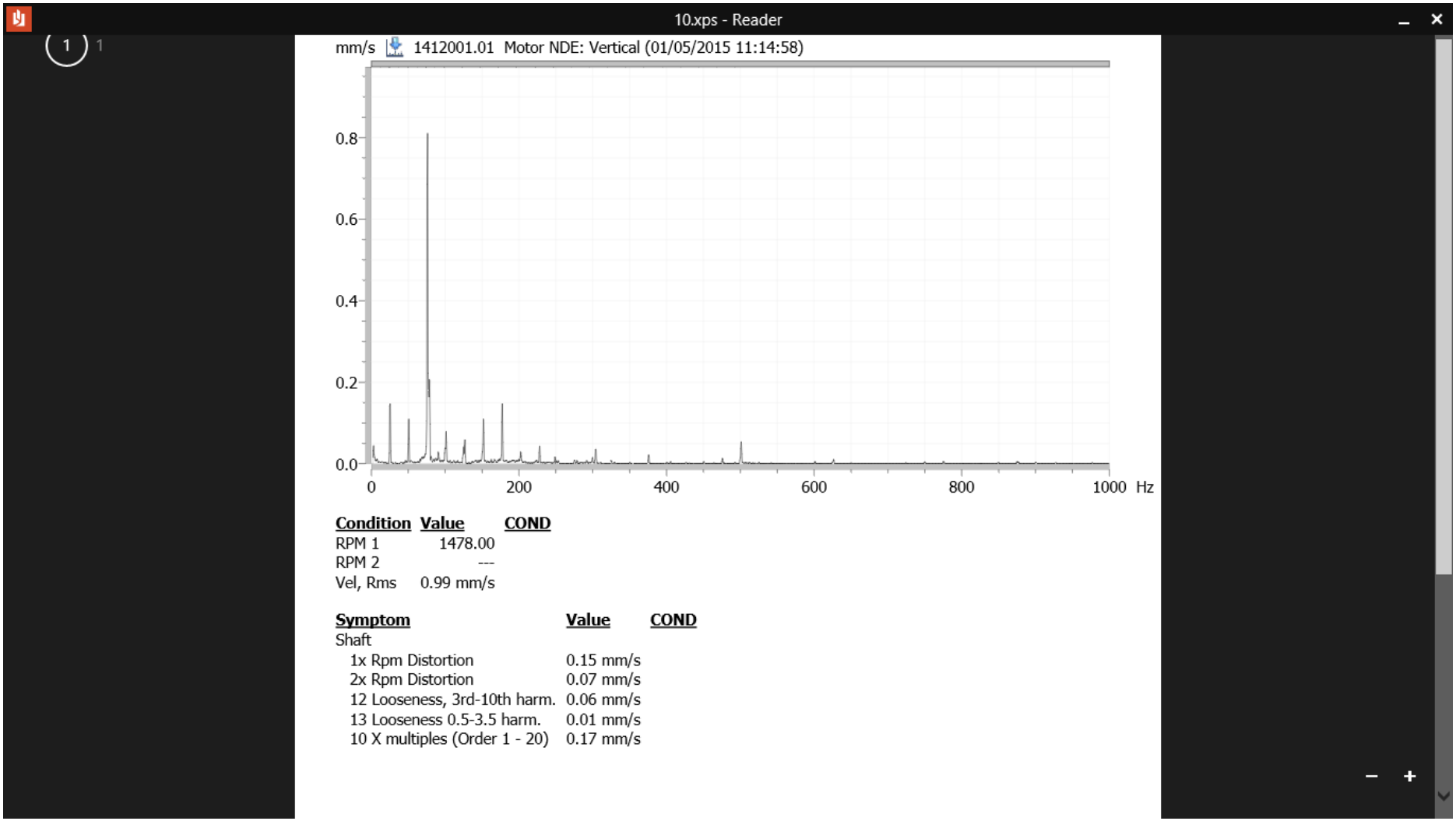
Symptom

Symptom	Value	COND
Shaft		
1x Rpm Distortion	0.15 mm/s	
2x Rpm Distortion	0.01 mm/s	
12 Looseness, 3rd-10th harm.	0.05 mm/s	
13 Looseness 0.5-3.5 harm.	0.01 mm/s	
10 X multiples (Order 1 - 20)	0.16 mm/s	
Induction motor		

Induction motor

36 Rotor bar fault, 50 Hz	0.01 mm/s
34 Rotor fault, 50 Hz	0.15 mm/s
32 Eccentric rotor, 50 Hz	0.42 mm/s
30 Eccentric stator, 50 Hz	0.26 mm/s
38 Loose connector, 50/60 Hz	0.03 mm/s

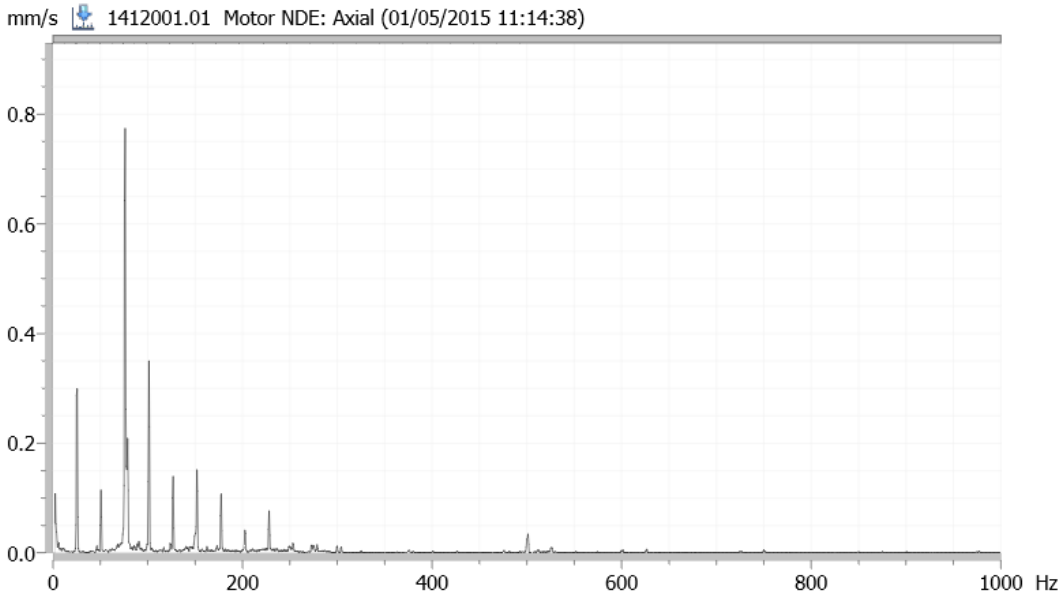
11. NDE – vertical (free run without excitation)



Condition	Value	COND
RPM 1	1478.00	
RPM 2	---	
Vel, Rms	0.99 mm/s	

Symptom	Value	COND
Shaft		
1x Rpm Distortion	0.15 mm/s	
2x Rpm Distortion	0.07 mm/s	
12 Looseness, 3rd-10th harm.	0.06 mm/s	
13 Looseness 0.5-3.5 harm.	0.01 mm/s	
10 X multiples (Order 1 - 20)	0.17 mm/s	

12. NDE – axial (free run without excitation)



Condition	Value	COND
RPM 1	1478.00	
RPM 2	---	
Vel, Rms	1.08 mm/s	

Symptom	Value	COND
Shaft		
1x Rpm Distortion	0.30 mm/s	
2x Rpm Distortion	0.07 mm/s	
12 Looseness, 3rd-10th harm.	0.06 mm/s	
13 Looseness 0.5-3.5 harm.	0.02 mm/s	
10 X multiples (Order 1 - 20)	0.31 mm/s	