

ISO 17359:2018-01 (E)

Condition monitoring and diagnostics of machines - General guidelines

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Overview of condition monitoring procedure	1
5	Cost benefit analysis	3
6	Equipment audit	3
6.1	Identification of equipment	3
6.2	Identification of equipment function	4
7	Reliability and criticality audit	4
7.1	Reliability block diagram	4
7.2	Equipment criticality	4
7.3	Failure modes, effects and criticality analysis	4
7.4	Alternative maintenance tasks	5
8	Monitoring method	5
8.1	Measurement technique	5
8.2	Accuracy of monitored parameters	5
8.3	Feasibility of monitoring	5
8.4	Operating conditions during monitoring	6
8.5	Monitoring interval	6
8.6	Data acquisition rate	6
8.7	Record of monitored parameters	6
8.8	Measurement locations	6
8.9	Initial alert/alarm criteria	7
8.10	Baseline data	7
9	Data acquisition and analysis	8
9.1	Measurement and trending	8
9.2	Quality of measurements	8
9.3	Measurement comparison to alert/alarm criteria	8
9.4	Diagnosis and prognosis	8
9.5	Improving diagnosis and/or prognosis confidence	9
10	Determine maintenance action	9
11	Review	10
12	Training	10
Annex A (informative)	Examples of condition monitoring parameters	11
Annex B (informative)	Matching fault(s) to measured parameter(s) or technique(s)	12

Annex C (informative) Typical information to be recorded when monitoring machine types shown in Annex A	24
Annex D (informative) Overview of condition monitoring standards	26
Bibliography	28