

ISO 13379:2003-08 (E)

Condition monitoring and diagnostics of machines - General guidelines on data interpretation and diagnostics techniques

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Condition monitoring set-up and diagnostics requirements	2
4.1	Role of diagnostics in operation and maintenance	2
4.2	Establishing diagnostics needs	3
4.3	Failure Mode Symptoms Analysis (FMSA)	4
4.4	Diagnostics requirements report	7
5	Elements used for diagnostics	8
5.1	Condition monitoring data	8
5.2	Machine data	10
5.3	Machine history	10
6	Diagnostic approaches	10
6.1	Selection of diagnostic approach	10
6.2	Fault/symptom approach	11
6.3	Causal tree approach	13
Annex A (informative) Failure Mode and Symptoms Analysis (FMSA)		15
Annex B (informative) Effectiveness of the diagnostics system		18
Annex C (informative) Example of diagnosis report		19
Annex D (informative) Example of determination of diagnosis confidence level		22
Annex E (informative) Example of causal tree modelling: Bearing spalling		23
Bibliography		25