ISO 21018-1:2024-10 (E)

Hydraulic fluid power - Monitoring the level of particulate contamination of the fluid - Part 1: General principles

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Health and safety 4
4.1 General 4
4.2 Electric power 4
4.3 Mechanical fluid power 4
4.4 Process liquids 4
4.4.1 Flammable or combustible liquids 4
4.4.2 Chemical compatibility 4
4.5 Electrical earthing/grounding 4
4.6 Environmental 4

5 Selection of monitoring technique 5
5.1 General 5
5.2 Selection 5

6 Procedures and precautions 5
6.1 General 5
6.2 Sampling 5
6.2.1 Obtaining representative samples 5
6.2.2 Off-line sampling 6
6.2.3 Off-line analysis 6
6.3 Analysis 6
6.3.1 On-line analysis 6
6.3.2 In-line analysis 6
6.3.3 Off-line analysis 7
6.4 Calibration procedures 7
6.5 Checking data repeatability 7
6.6 Training 8
6.7 Controlling the precision of the technique 8

7 Test report 8

Annex A (informative) Summary of various technique attributes 9

Annex B (informative) Description and relative merits of different contaminant monitoring techniques 15

Bibliography 23