Technical advice – Bearing

Contact data

|  |  |
| --- | --- |
| Company |  |
| Contact person / Position |  |
| Address |  |
| Contact (Phone / E-mail) |  |

Application-/ Problem description

|  |  |
| --- | --- |
| Application / Problem  (description as precise as possible) |  |
| Machine |  |
| Producer |  |
| Designation |  |

Details about bearing

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type of bearing  (e.g. radial bearing, axial bearing, sintered metal plain bearing) |  | | | |
| Producer |  | | | |
| Dimensions | D= | *mm* | B= | *mm* |
|  | d= | *mm* |  |  |
| Roughness | Shaft: | *µm* | Bearing: | *µm* |
| Material pairing |  | | | |
| Speed [rpm] or [m/s]  n x dm factor |  | | | |
| Surface treatment / material |  | | | |
| Installation position |  | | | |
| Bearing seal / material |  | | | |
| Housing material |  | | | |
| Interior painting / housing painting |  | | | |

Operating conditions

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Average surface pressure |  | | |  | | *N/mm²* | | Shock load | | | |  | | *N* | |
| Speed & movement | radiation | | | | | | | vibration | | | | | | |
| shaft rotates | | | | | | | oscillation | | | | | | |
| bearing rotates | | | | | | | | | | | | | |
| d= |  | *m* | n= | |  | | *1/s* | v= | |  | | *m/s* | |
| Environment  (e.g. acid, alkali, cleaner, dust, gas, electricity etc.) |  | | | | | | | | | | | | | |
| Frequency |  | | | | | | | | | | | | | |
| Temperature lubricated element [*°C*] |  | | | | | | measured | | | estimated | | | | |
| Temperature environment [*°C*] |  | | | | | | measured | | | estimated | | | | |
| Operating conditions | Operation time / Day | | | |  | | Lifetime | | |  | | | | |

Lubrication system

|  |  |  |  |
| --- | --- | --- | --- |
| Previously used lubricant (name and manufacturer) |  | | |
| Lubricant recommended by the bearing manufacturer |  | | |
| Does the previous lubricant work? | Yes | |  |
| No, reason/ desire for  improvement | |  |
| Lubrication type | Run-in lubrication | | assembly lubrication |
| Lifetime lubrication | | circulating lubrication |
| Re-lubrication | | additional lubrication |
| Lubrication application | Manually | | |
| Automatically | | |
| Self-lubrication | | |
| Amount of lubrication per part | |  | |
| Amount of lubrication per year | |  | |

Other requirements

|  |  |
| --- | --- |
| Other requirements | H1 registration |
| noise canceling |
| low torque |
| Others: |

Other

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| --- |
|  |

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Place and date