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  | $$p\_{m}=F/(Bxd)$$ |  | *N/mm²* | Shock load  |  | *N* |
| Speed & movement  | [ ]  radiation  | [ ]  vibration  |
| [ ]  shaft rotates  | [ ]  oscillation  |
| [ ]  bearing rotates $v=πxdxn$ |
| 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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Place and date