

SKF Lubrication Planner





Instructions for use

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Original instructions

1. Disclaimer

When installing the software, the user is accepting the conditions explained in the "Terms of use" displayed during the installation process. Read them carefully before accepting and proceed.

2. Installing the software

To install SKF Lubrication Planner onto a PC

- 1. Insert a CD into the PC or download the file from our webpage
- 2. Use windows explorer to view the file
- 3. Open and run the file "SKF LubPlan setup.exe"
- 4. This will start the installation of the software on the PC.

Once the software has successfully been loaded an icon appears on the desktop:



3. Starting the software



To start the software double click on the icon The following screen will appear:



Log in by typing in the user name and Password.

The default User name is: admin

The default Password is: admin

User name and password can be adjusted in the program see chapter 4.5.

4. Task bar and features

4.1 Edit mode/Read only mode



Ready only mode



Edit mode

The first icon on the tool bar represents the mode status of the program. The option to shift between "edit mode" and "read only" mode is available only for users with access level "Editor" or "Administrator". For users with "user" access level, the program is always in "read-only" mode. See chapter 4.5 for the different user access levels.

No changes to the database can be made in the read only mode except for the completion of tasks. See chapter 4.2 Task lists.

The password is needed again to change form "read only" mode to "edit mode".

4.2 Task lists



This icon is for printing task list and marking tasks as completed. There are three different methods to generate task lists:

- Create task lists based on strict date scheduling
- Create task lists on "same day" strict date scheduling
- Create task lists based on selection criteria

The method can be defined under settings. (See section 4.5)

eral Schedule	Users Text Database Internet	
Company name		
Home		
Display language		
English/Anglais (en)		*
Display font		
Tr Anal Unicode 1	AS	*
Currency name		
EUR	e.g. EUR, USD, GBP, SEK	
Task list mode		
Create task lists ba	sed on selection criteria	•
Status changes a	re automatically saved	
Reset all d	alogs	

4.2.1 Create task lists based on strict date scheduling

Tasks are planned on the selected day of the week or month according with the preferences specified at "schedule tab" under "settings".

This means that e.g. all weekly tasks will be performed on i.e. every Wednesday.

When this mode is selected the indicating box at the task bar will show "Strict":

Lubrication Planning System - admin/Admin SKF Lubrication Planner							SKF
Work Work	Track Teak Court son Status Teak Court son Subus Court son Court son Court son Court son Court Court	off karner allun Off Off Units g	Task isst d	n motorroo ne: 2016-02-01 by "Guis" hedule years	luctor D	Per N years Né 2 ⊕ Orticatiy ⊕ 8 © C	Streductor controleren → Hatoy 2018-01-29 → LuteSteet
* # * *	Connents				6		Apply

In that case the following window will appear clicking on the task lists icon:

	Tas	k List	
Factory		Section	
Al	•		
Area	-	Subsection	
Select on Lubricant	Select on	Criticality	Select on Schedule
Shell Cassid Chain 100(Shell Cassid Chain 100(Shell Alvania EP 2 Shell Alvania EP 2 Shell Tellus T 15 Castrol Anvol SWX46 Joe special grease Ole/vet mengsel	A A		V N days: 0 V N days: 0 V Weekly: 9 Weekly: 4 V N weeks: 3 Monthly: 0 V M months: 0 V N years: 0
All None	All	None	All None
December 20	016		ecember 2016
40 1.5		40	I W III PISASU
49 5 6 7 8 9	2 10 11	49 5	6 7 8 0 th tt
50 12 13 14 15 16	5 17 18	50 12	101415161016
51 19 20 21 22 23	3 24 25	51 19	22 23 24 25
52 26 27 28 29 30	0.31	52 26	29 31
1		1	a transferra
Today			Today
Selected start date: 2016	12-01	Selected of	ut-off date: 2016-12-31

The task list can be previewed and printed with the preview button. The created task list shows all tasks that need to be done after the start date and before the selected cut-off date.

All days with tasks before the selected date have a colored background, which is red before the current date and blue after the current date. Task list can be targeted to include only specific factories, areas, sections: and subsections. It is also possible to only included selected lubricants, criticality or lubrication intervals in a list.

The name of the employee who will perform the tasks selected should be written in the field employee.

The tasks can be completed clicking "completed" button. This button gives first an overview of the selected tasks. These can be individually marked as completed by ticking the box. (All boxes are ticked by default) It is also possible to adjust the quantity that was applied without affecting the quantity by default. This is only used for storing the correct data in the history of a point.

Completed Tasks	X
Clear all tasks (if any) that haven't	been completed yet.
Click OK to update task status in the datab	ase or Cancel to abort this.
Click OK to update task status in the databo Overpelt:Smelterij:Productie Zamak:Zamak gietijn 3:Stempelinste Overpelt:Smelterij:Productie Zamak:Zamak gietijn 3:Hydraulische Overpelt:Smelterij:Productie Zamak:Zamak gietijn 3:Hydraulische Overpelt:Smelterij:Productie Zamak:Zamak gietijn 4:Gietketting 3 Overpelt:Smelterij:Productie Zamak:Zamak gietijn 4:Gietketting 3 Overpelt:Smelterij:Productie Zamak:Zamak gietijn 4:Stempelinste Overpelt:Smelterij:Productie Zamak:Zamak gietijn 5:Stempelinste Overpelt:Smelterij:Productie Zamak:Zamak gietijn 5:Hydraulische Overpelt:Smelterij:Productie Zamak:Zamak gietijn 5:Hydraulische Overpelt:Smelterij:Productie Zamak:Zamak gietijn 6:Trileenheid 2 Overpelt:Smelterij:Productie Zamak:Zamak gietijn 6:Trileenheid 2 Overpelt:Smelterij:Productie Zamak:Zamak gietijn 6:Stempelinste Overpelt:Smelterij:Productie Zamak:Zamak gietijn 6:Trileenheid 2 Overpelt:Smelterij:Productie Zamak:Zamak gietijn 6:Thelenheid 2 Overpelt:Smelterij:Productie Zamak:Za	Gise or Cancel to abort this. allate Zamakijin 3:Slagolinder - smeerpot:Slagolinder - oli ∧ zamakijin 3:Tiller - smeerpot:Triller - oliepeli smeerpot co e bedieningsgroep Zamakijin 3:Hydraulische groep Rexro e bedieningsgroep Zamakijin 3:Hydraulische groep Rexro allate Zamakijin 4:Die Smeerpot:Pomp - c latie/smeergroep Zamakijin 3:Automatische smering kettir zamakijin 4:Automatische smering ketting:Automatische s allate Zamakijin 4:Gletinrichting - smeerpot:Gletinrichting allate Zamakijin 4:Gletinrichting - smeerpot:Gletinrichting allate Zamakijin 4:Gletinrichting - smeerpot:Gletinrichting allate Zamakijin 5:Slagolinder - smeerpot:Slagolinder - oli zamakijin 5:Gletinrichting - smeerpot:Gletinrichting allate Zamakijin 5:Gletinrichting - smeerpot:Gletinrichting allate Zamakijin 5:Slagolinder - smeerpot:Gletinrichting allate Zamakijin 5:Slagolinder - smeerpot:Gletinrichting allate Zamakijin 6:Slagolinder - smeerpot:Gletinrichting allate Zamakijin 6:Slagolinder - smeerpot:Gletinrichting allate Zamakijin 6:Slagolinder - smeerpot:Slagolinder - ol zamakijin 6:Slagolinder - smeerpot:Slagolinder - ol allate Zamakijin 6:Slagolinder - smeerpot:Slagolinder - ol zamakijin 6:Slagolinder - smeerpot:Slagolinder - ol allate Zamakijin 6:Slagolinder - smeerpot:Slag
*	
[dd-mm-yyyy] Amount 0.00 0 Apply	
Tasks: 147	V OK X Cancel

4.2.2 Create task lists based on "same day" date scheduling

Under this setting, all tasks will be planned by adding the interval to the date indicated on the "Task last done" field. For instance, if a monthly task was last done on 5th of October, it will be scheduled the 5th of every month. Weekly tasks will be scheduled 7 days after the previous ones and twice weekly will follow the days indicated in settings. This implies that not all monthly tasks are necessary scheduled on the same day. The "task last done" date is the last date when the task was scheduled as it's expected that the user mark it as completed the same day it was performed.

Previewing and completing task lists functioning in the same way as in strict date scheduling.

When this mode is selected the indicating box at the task bar will show "Repeat":

System - admin/Admin		088
SKF Lubrication Planner		5KF
Compet Compet	Task Task Deur smelltkamer aluminiumoven. Deuren – motorreductor.De Status Go Off Task last done. 2018-02-01 Product	suren - motorreductor controleren 🚽
Ceuran - motorreductor/New part 205020 Deuran - motorreductor controller Or puten - sandytetting New part 205020 Or puten - sandytetting New part 2050 Or puten - sandytetting New part 2050 Mangodan in doeiningen Mangodan in doeiningen Mangodan in doeiningen Mangodan in 3	Devren - moloreductor controleren Lubrication product she fils fils	2018-01-29
S S S S S S S S S S	Toole Kontrolennobjuulen Noles Hendmatg	
	Connerts.	A001/
4 III • • • • • • • • • • • • • • • • •		Repeat 02.02 (05-12,2016) 4

4.2.3 Create task lists based on selection criteria

Task list in this method can be printed based on three criteria:

- Lubricant: A list will be made including only the lubrication points where the selected lubricant is used.
- Criticality: A list will be made including only the lubrication points having the selected criticality level.
- Schedule: A list will be made including only the lubrication points having the selected frequency.

When this mode is selected the indicating box at the task bar will show "Selection":

Stubrication Planning System - admin/Admin								-
SKF Lubrication Planner							SKF	
Arrore Arrore	Construction C	Cont reductor controleren Noct Units P	niniumoven De Taskias	laren - motorredu t done: 2016-02-01 by "Guan" Schedule N yeers	ictor Deu	Per Nyeara N= 2 1 Critically @ 8 @ 8	Exer • 1 creatuctor controleran • T Hasoy. Exercised Lubefielet Appy	
	Comments							1
Exit program Contact SKE					(19080	CHOD 02.02 (08-12-2016)	× ut

actory All	_	•	Section		
rea		*	Subsection		
election criteria		Select on Cri	ficality	Select on Schedule	
Shell Omala 100 Spuitbus Graphoil D310 Mobilux EP2 Shell Alvania RL 3 Shell Alvania WR 2 SKF LGMT2 SKF LGGB2 SKF LGWA2 Total Lubricant 1	4 m *	 ✓ 8 ✓ A 		✓ Daily: 0 ✓ N days: 0 ✓ Twice weekdy: 0 ✓ Weekdy: 0 ✓ N weeks: 0 ✓ Monthly: 0 ✓ N months: 0 ✓ N years: 0 ✓ N years: 0	4 H

By using this method it is not possible to mark tasks as completed, as this mode is intended to be used specially when an additional ERP is installed in place and users do not want to have two parallel schedules.

4.3 Labels



This feature allows printing labels for identification of lubrication points. They can be stuck on the "Grease fitting cap and tags TLAC 50" that were specially

designed by SKF for that purpose. Read the instructions for use of these sheets and grease fitting caps carefully and note that a sheet should only be passed by a printer one time.

The points whose labels are desired to be printed can be individually selected. In the "overview" section of the "labels" window under the "Print labels" tab, a summary is made about the selected parts and needed sheets to print them.

	Labels	
Print labels Setup		
A C A Home	Total parts	210
p s1	Part status=ON	210
	Part status=MIX	0
	Part status=OFF	0
	Selected parts	0
	Selected tasks	0
	Labels to print	0
	Sheets to print	0
	Options One label per part One label per task 	
	Done: 500	abels

You can adjust the configuration of your printer against the paper size in the "Setup" tab.

	Labels	
labels Setup		
	Label definitions - all values are in mn	n
	Number of columns	4 🚖
	Number of rows	12 🚭
	Label width	45.72
	Space between label columns	2.54
	Label height	21.16
	Space between label rows	0.00
	Distance from top edge of paper to first row of labels	21.54
	Distance from left edge of paper to first column of labels	9.75
		Reset
	Print testsheet	Save label values

The top line of the labels is the code of a point (Combination of Factory code + area code + section code + subsection code + machine code + part number). The length of this code is limited on the length of the label. We therefore recommend using only short codes. Some part of the code will be removed it the total code is longer then the label.

The second line is showing the lubrication product used.

The last line is a combination of lubrication quantity, relubrication frequency and criticality.

PM 1:DS1:R02:DSSL1:Drive Si/1 SKF LGMT2 2.00 g/Weekly/C

4.4 Search



4.5 Settings



The icon **"settings"** gives access to all the different possible configuration options of the program. Under the tab "General", the display language can be changed as well as the display font.

The task list mode can be used to select the method of generating tasks lists as described in chapter 4.2.

The **"schedule"** tab gives the opportunity to set the day when the tasks should be scheduled under the "strict date scheduling" mode.

The **"Users"** tab (only visual and accessible for users with access level of administrators) gives the possibility to add, update and delete users. Users with "user" access level can only print and complete tasks. A user with editor access level has access to all the functions of the software except to change access levels and passwords of users. That can only be done by users with administration rights

The **"text"** tab (only visual and accessible for users with access level of administrators and editor) give the opportunity to textual adjust and delete lubrication products and lubrication units used. This won't change any data in the database. SKF lubricants are loaded by default.

The **"database"** tab can be used to select another path for the database.

4.6 Database tools



The first option under the database tools is the exporting and importing the database. This is helpful when the structure of the lubrication points is already or intended to be created in any digital way that allows exportation to a spreadsheet. This is done to and from an .XLS file. See the Help file under the question mark at the top-right corner for instructions on this function. Keep in mind that this function manages just the structure and not the whole database which includes e.g. history.

import/Export			
			[
art			
Select operation			
Import from Excel			
Export to Excel			
Goto start Previous	Next 🕥	Close	1
			1000

In order to save a copy of the full database you should use the second function "Backup Database".

We recommend saving a copy of the database on a regular basis using this function. Such file could be stored on a different location to limit the chance of loosing important data. The restore function can be used to load a backed up database to the program. By default, the backup file is saved in C:\SKF\LubPlan\Databases using consecutive numbers.

KF Lubrication P	lanner		
Backup complet	ted succesfully.		
Backup was crea Quality\LUBRIC Planner\LubPla	ated in: N:\Prod ATORS\Lubricat n2\Databases\Bi	uct Development and ion ACKUP004	
			ОК

The "upload database" function will sent the database to an SKF server. The data provided could be processed for marketing, sales and product development purposes.

The "email database" function can be used to send an email including the database.

4.7 Useful links

SKF .com

Useful webpages are located under this icon as:

- SKF Maintenance Products
- SKF Lubrication homepage
- SKF Aptitude Exchange
- SKF Interactive Catalogue
- SKF Best Procedures for lubrication

4.8 What's new

The information regarding the latest updates performed on the software will be displayed under this icon.

5. Data tree

The left side of the screen is filled with the data tree.

Velubrication Planning System - admint/Admin SKF Lubrication Planner	<u>е</u> .	
 Constary Products Zamak Aminisus on recyclingcovin Clever and charact summarrowin Clever and charact summarrowin Desirem - motion recyclingcovin Desirem - motion recycling rec	Bour smethanse aluminumover.coursin course - molocrobucior.com Satus # On On Task list done: 2014-02-01 Provident - Restricture continience Listication product One Zot Units Zot Units Zot Units Tools Votosemblouten Notes Handmalig	Image: a control ductor control ductor Image: a control ductor <td< th=""></td<>
Control Set	-	Sciection (202(06-12-2016)

Basically, the tree represents the structure of a facility. It uses 5 levels over the tasks:

Company Name>Factories>Areas>Sections>Subsections>Machines>Parts>Tasks

New data can be created through importing data as explained in chapter 4.6, or directly on this tree by adding new parts, or copying them.

The order in the data tree determines the sequence of tasks when printing a list. The structure can be modified by "dragging and dropping".

When a node is selected, the information regarding that node is displayed in the right part of the window.

The color of a node in the tree is representing the status of the node. Nodes that are "on" are blue. All tasks under this node will be scheduled in the task lists. Nodes that are "off" are represented in grey. These aren't scheduled in the task lists and are useful when a part of the plant is temporarily shut down. Nodes that have mixed "on" and "off" tasks underneath them are represented as black.

5.1 Home – Company Name

Home is the highest level of the data tree, containing all factories underneath. The name home can be personalized under settings – Company Name.

This is the screen where a pictogram and text will show if there is a new version available to update the SKF Lubrication Planner software. Just click on it to start the updating.

By right clicking on home, extra functions are displayed. The option "Show only points with errors" is a good way to check the data on errors, such as unknown schedule interval.

-	Add new Factory
8	Show summary
	Show lubricant totals
(3	Expand all
阁	Collapse all
	Show all points
•	Show only points with errors
0	Reload database

"Show lubricants totals", allows having an overview of all the types of lubricants used and the amounts required within a year.

5.2 Factory

- 📓

Factories have a code, description, status and comments. The code should be short and representing the factory. As the sum of all codes forms the final code that will be printed in the identification tag, they should be conceived as short as possible in order to make them easily printable. General advice is to keep the full codes smaller than 25 characters. Additional tips to save space are to use small fonts and avoid capitals.

5.3 Area

Areas have a code, description, status and comments. The code should be short and representing the area.

5.4 Section

Sections have a code, description, status and comments. The code should be short and representing the section.

5.5 Subsection

Subsections have a code, description, status and comments. The code should be short and representing the subsection.

5.6 Machine

2

Machines have a code, description, status and comments. The code should be short and representing the machine.

5.7 Part

e,

Parts have a code, description, status, nr of parts and comments. The code should be a short and representing the Part.

The "number of parts" field can be used when there are several parts next to each other with exactly the same conditions. They will therefore have exactly the same tasks to be performed on it.

8

Lubrication Planning System - admin/Admin SKF Lubrication Planner	SKF
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· · · ·	Connerts (*

Every part can have as many tasks as needed. The date of "task last done" represents the last time it was scheduled and afterwards marked as completed. This date determines as well the next time it will be scheduled in the task list, depending on the mode of scheduling selected at "Settings". The next scheduled date can be seen at the blue field below "History". Administrators have the possibility to adjust the date when the task is last done. This date will automatically be updated when the task is marked as completed. For more information, see chapter 4.2.

Every time a task is preformed a line will be created in the history file. The history file is then showing the dates when the task was scheduled and completed, the employee who performed the task, the lubricant used and the amount applied. The history file can have a maximum of 500 lines, after which the oldest lines are removed. A back up of the database could be used to go further back in time. The history can be anytime exported to an Excel file, printed or erased.

The "description" should represent what the task is. It is advisable to create official procedures with best practices for every task. These could be mentioned in the "comments" field. Documents with basic best procedures for most common lubrication tasks can be found under the "Useful Links" icon. Refer to chapter 4.7 for additional information.

Lubrication product, amount, unit and schedule should be filled in at every task.

"Tools" and "Notes" can be filled in as extra info that is printed on the task list. This is good to make sure that the lubrication technician is carrying with him all required things to properly perform the task, as grease guns, cleaners, automatic lubricators, fittings, filters, etc.

Criticality can be specified here to address the importance of the task. This is also printed on the task list.

LubeSelect button can be used to get advice on the proper lubrication product, amount and schedule for bearings or for a proper automatic lubricator. An internet connection is necessary for this feature as well as the log in name and password for SKF @ptitude exchange used to download the software. The registration and use of this service is for free. The lubrication recommendation is easily imported in the program.

In order to save time for the future, the password can be saved in the fields at the top of the first interface page.



Once in the interface, data from the application must be filled in, and at this point it's possible to save the data to the database. This is useful for future reference.

earing I	Fields marked with (*) at	e mandatory for grease type selection					
	Load C/P (*)	Optional conditions I	the second s		Laboration		
e Bearing designation	Cow (>16)	D No Ves D N	(ioad (*)		Lubrication		
Bearing type	 High (4-8) Very high (<4) 	Osciliating movements Oute	c ring rotation	ing rotation		From the side W33 groove	
Spherical roller bearings	Ambient temperature (*)	Optional conditions II					
Inner diameter d 110 - mm	m m CLess than -10°C		Not relevant	Relevant	Important	Very	
Outer damater D 200 m		Central lubrication system		23	<u>6</u>	割	
Bearing with/height 53 👘 mm	 C) Setween -10 and 40°C. 	High rust protection	121	13	四	20	
	m O More than 40°C	Water resistance	192	10	茴	100	
Bearing II Spherical roller bearings only Tearring serve 222	Outer ring - temperature and speed	Low noise	191	100	121	211	
	Typical temperature	Frequent startup/shutdown (+)	12	10	10	問	
	70 🚖 °C (*)	Heavily vibrating installation	1	問	105	何	
Contractor Phillippine	Miniumum temperature (start-up)	Very low triction		23	12	103	
No O Yes	25 🖭 "C	Very long grease life		11	15	E	
	Maximum temperature (peak)	Food compatibility	1	1	10	10	
cyandrical roler bearings only	av TT TC	Biodegrability		10	123	123	
And the second	Rotational speed	Radiation resistance	12	2	12		

Once entered the right info and after clicking "Get advice", the software will show all the options that LubeSelect consider suitable. Choose the preferred grease and lubrication method.

A LOCAL DATE OF LAND	Lancore and the					
ating	Grease	Relub interval	Corrected interval	Relub amount (g)	Poor performance on	
	SKF LGMT3	5200	2600 (0,3,17)	53	-	
	SKF LGHP2	9400	4700 (0.6,13)	53		
***	SKF LGWA2	7800	3800 (0,5,10)	53	£	
***	SKF LGLT2	5200	2600 (0,3,17)	53	F	
	SKF LGHB2	8900	4450 (0,6,2)	63	¥.	
***	SKF LGMT2	5200	2600 (0,3,17)	53	e:	
	SKF LGEP2	5200	2800 (0,3,57)	53	×.	
	SKF LGFP2	3600	1800 (0,2,14)	53	8	
-	and a man	12025				
Lubrication mel Manual LAGO 60	hod DLAGD 125 TLSD 125 days Contan	C TLSD 250 C TI TLMR 120 C TI Inston	MR 380 MP	44	Manual lubrication	1
Op hours Op						

Once selected the most suitable grease and lubrication method click on "Apply selected" and accept to store this in the database.

For additional information regarding LubeSelect refer to www.skf.com.

6.1 LubeSelect input parameters

1. Bearing designation

It refers the unique SKF identification code of the bearing (see the Interactive Engineering Catalogue). If the designation is unknown, or in case of a non-SKF bearing, fill in the bearing type and associated parameters instead.

2. Bearing type

DGBB	Deep groove ball bearings
SABB	Self-aligning ball bearings
Y-Bearing	Y-bearings
ACBB	Angular contact ball bearings
ACBB - High-precision	High precision angular contact ball bearings
CRB	Cylindrical roller bearings
CRB - High-precision	High precision cylidrical roller bearings
CRB - Full complement	Full complement cylidrical roller bearings
TRB	Tapered roller bearings
SRB	Spherical roller bearings
CARB	CARB bearings
CARB - Full complement	Full complement CARB bearings
NRB	Needle roller bearings
ТВВ	Thrust ball bearings
ACTBB	Angular contact thrust ball bearings
CRTB	Cylindrical roller thrust bearings
NRTB	Needle roller thrust bearings
SRTB	Spherical roller thrust bearings
Plain bearing	Plain bearings

3. Inner diameter (d)

Bore diameter of the bearing in mm. (1 inch = 25,4 mm).

4. Outer diameter (D)

Outside diameter of the bearing in mm. (1 inch = 25,4 mm).

5. Bearing width/height (B,H)

Height is used for radial bearings, Width for thrust bearings. This value is displayed on the results screen.

6. Filling type

LubeSelect for SKF greases concerns SKF greases only.

7. Load (C/P)

Ratio of the basic dynamic load rating (C) divided by the equivalent dynamic bearing lead (P). This parameter is used to assess lubricants load capacity (antiwear properties EP, etc.) (See the General Catalog or IEC for calculation of the load).

8. Typical temperature (outer ring)

Temperature in degrees Celsius of the bearing measured on the outer ring during normal operation in the application.

Conversion:

temperature in degrees Celsius= (5/9)*(temperature in degrees Fahrenheit-32).

9. Minimum temperature (start-up)

It stands for the minimum temperature of the bearing at start-up in the application. Conversion:

temperature in degrees Celsius= (5/9)*(temperature in degrees Fahrenheit-32).

10. Maximum temperature (peak)

This is the peak temperature of the bearing in the application.

Meaning the maximum temperature which can occur during operation or standing still. Conversion:

temperature in degrees Celsius= (5/9)*(temperature in degrees Fahrenheit-32).

11. Rotational speed

Bearing speed, in number of revolutions per minute (RPM).

12. Shock load

Bearings subjected to short, impulse-like loads, like railway boogie bearings or wind peaks acting on wind turbines and its gearbox bearings.

13. Ambient temperature

Refers to the Air temperature in the direct surroundings of the bearing (e.g. oven temperature).

This parameter is used to prefer lower/higher grease consistency.

14. Bearing Arrangement

The arrangement the bearing is applied in. Used for calculating speed limits for CRB bearing.

15. SRB Series

First three digits of SRB bearing designation, indicating which series the SRB belongs. Used for calculating speed limit for SRB bearing.

16. Large axial load

This corresponds to the ratio of axial force and radial force larger than calculation factor e in the SKF General Catalogue 6000. Used for calculating speed limit for SRB bearing.

17. Vertical shaft

Select it where the application considers shaft in vertical position. This parameter is used to prefer leakage resistance properties.

18. Oscillating movements

Bearing which does not revolve but swings back and forth. This parameter is used to prefer good anti-brinelling performance, or greases which easily provide lubricant into the contact.

19. Outer ring rotation

Applicable when the outer ring is rotating instead of the inner ring. This parameter is used to prefer greases which are mechanically stable and can withstand high G-forces. (GAST test).

20. High rust protection required

This is important in case of aggressive water contamination (with possible additives). Typical examples: pulp & paper application, metal working, and many others.

21. Water resistance required

This is important in case of a highly humid environment or water spraying onto the bearing. Typical examples: water cooled bearings (as in the steel industry), bearings on the bottom of a car (because of the pools on the roads).

22. Low noise required

'Low noise' is interpreted as a noise level of QE4 or QE5 for bearings with an outer diameter smaller than 47 mm, and a noise level of QE5 or QE6 for bearings with an outer diameter larger than 47 mm.

23. Frequent start-up/shutdown

Frequent means more than once per day in this context. With this parameter, lubricants are preferred with good antiwear properties and high viscosity. Typical example: a car, stopping and accelerating frequently in city traffic.

24. Heavily vibrating installation

When high G-forces (G>1) are present. Typical examples: railway axle boxes, vibrating screens. With this parameter, greases are preferred with good mechanical stability, tested in V2F test.

25. Very low friction required

Relevant in applications where a low start-up or running torque is required, or if a low running temperature is wanted. This parameter is used to prefer low base-oil viscosity. Typical example: textile industry, spindles, robots.

26. Very long grease life required

It's Relevant in certain sealed/shielded bearing applications, especially when they are running at high temperatures. Typical example: car alternators, high speed electrical motors (in this case bearing life depends upon grease life).

27. Food compatibility required

Important if there is any chance at all that the grease will come into contact with food or food wrappings.

28. Biodegradability required

This is very important in case of significant total-loss of lubricant, or when legal requirements are in place. Typical examples: farming and forestry.

29. Radiation present

It refers to the presence of radiation. Grease must not degrade as a result of radiation. Preference is given to radiation resistant greases. Typical example: nuclear radiation.

30. Central lubrication system

When this parameter is selected, greases with good pumpability are preferred.

31. W33 Groove

It must be selected when the replenishment is made through the bearing outer or inner ring, instead of from the side. This parameter is used to calculate the required relubrication quantity.

32. Contamination

This parameter is used to adjust the relubrication interval.

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