SKF SYSTEM 24

LAGD 60 / LAGD 125

Instructions for use
Mode d'emploi
Bedienungsanleitung
Instrucciones de uso-
Manuale d'istruzioni
Bruksanvisning
Gebruiksaanwijzing
Instruções de uso
使用说明书
Инструкция по эксплуатации

English

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Original instructions

EU Declaration of conformity

We, SKF Maintenance Products, Kelvinbaan 16,
3439 MT Nieuwegein, The Netherlands declare that the

SKF System 24
LAGD 60 and LAGD 125

have been designed and manufactured in accordance with:
DIRECTIVE 2014/34/EU OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of 26 February 2014 on the approximation of the laws of the Member States concerning equipment and protective systems intended for use in potentially explosive atmospheres as outlined in Harmonised Standards

EN 60079-0: 2012
EN 60079-11: 2012
EN 50303: 2000

II 1 G Ex ia IIC T6 Ga
II 1 D Ex ia IIIC T85°C Da
I M1 Ex ia I Ma

EC-Type Approval:
KEMA 07ATEX0132 X

CE 0537

IECEx Certificate of Conformity:
IECEx DEK 15.0066X

Where in X denotes: –20°C ≤ Ta ≤ + 60°C (LAGD 60/... and LAGD 125/...)
appropiate measures must be taken to prevent electric discharge

EUROPEAN ROHS DIRECTIVE 2011/65/EU

Nieuwegein, The Netherlands, April 4, 2016

Sébastien David
Manager Product Development and Quality

Safety recommendations

To prevent electrostatic discharge in hazardous areas,
only wet cleaning is permitted.

1. Technical data

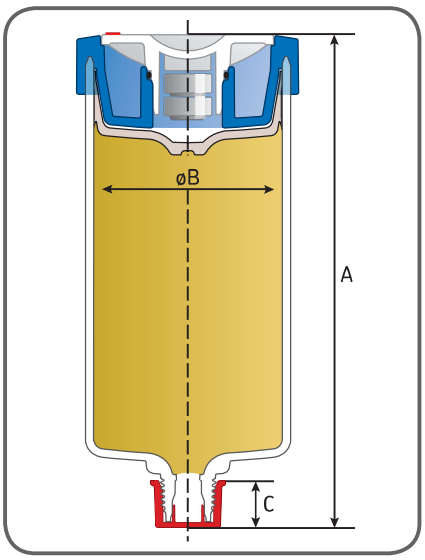
Grease capacity LAGD 60	60 ml, (2,03 fl.oz US)
Grease capacity LAGD 125	125 ml, (4,25 fl.oz US)
Nominal emptying time	adjustable; 1-12 months
Ambient temperature range LAGD 60/125	-20 °C to 60 °C (-5 °F to 140 °F)
Intrinsically Safe approval	II 1G Ex ia IIC T6 Ga II 1D Ex ia IIIC T85°C Da I M1 Ex ia I Ma
Protection Class	IP 68
Maximum operating pressure	5 bar (75 psi)*
Drive source	pressurised inert gas
Connection thread	R 1/4
Recommended storage temperature	+20 °C (+70 °F)
Storage life of lubricator	2 years **
Weight LAGD 60	approx. 130 g (4,3 oz) (grease included)
Weight LAGD 125	approx. 185 g (6,9 oz) (grease included)
Designation	LAGD 125/WA2 (filled with LGWA 2) LAGD “Capacity”/”lubricant”

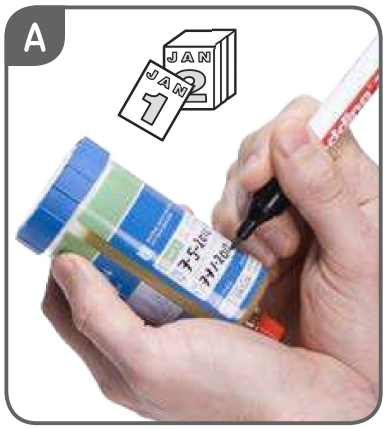
* The maximum internal pressure of a full lubricator applied to a fully blocked application.

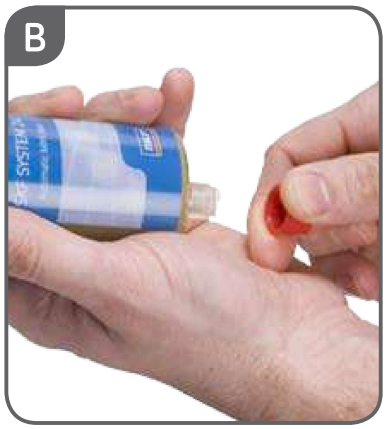
** Storage life lasts for 2 years from the production date printed on the side of the lubricator. The lubricator may be used for the maximum 12 months after 2 years of storage.

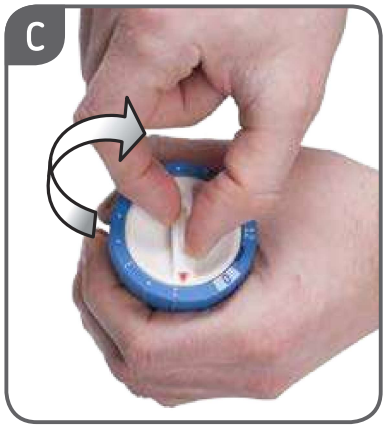
Empty S24 units are for oil only and must be used with a non-return valve.

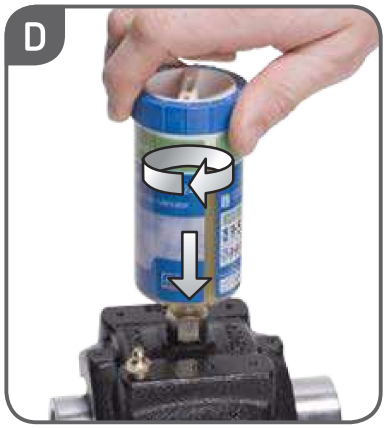
	LAGD 125		LAGD 60	
	mm	inch	mm	inch
A	118	4.645	86	3.386
øB	50	1.968	50	1.968
C	11	0.433	11	0.433











2. Installation

1. Write the installation date on the unit with a water-resistant pen. (Fig A)
2. Remove the end cap of the lubricator. (Fig B)
3. Turn the dial to activate the lubricator. (Fig C)
4. Clean the area around the lubrication point.
5. Remove the previous unit or old grease fitting.
6. Attach the new unit hand tight. (Fig D)
7. We recommend to check the general condition of the bearing and the position of the lubricator piston every normal manual lubrication interval.

When the unit is installed on a new application:

1. Make sure that the grease in the SYSTEM 24 is suitable.
2. Fill the supply lines and the bearing with grease.
3. Make sure the grease is compatible.
4. Make sure the ambient temperature is within the acceptable limits. If the ambient temperature is constantly above +40 °C do not select a dispense rate of more than 6 months for optimum performance.
5. Make sure the unit supplies grease to the bearing, or component to be lubricated.
6. Make sure that there is no connection for a grease gun on the same lubrication point.
7. Install the unit no more than 300 mm (grease) or 1 500 mm (oil) from the bearing.
8. Use only supply lines with an internal diameter of 6 mm.
9. Protect the unit against impact or vibration. Use the protection base LAPP 4 to shield the unit, or install the unit remotely.
10. Protect the unit against heat and sudden temperature changes.

Note:

- The lubricator can be temporarily de-activated. Set the lubricator time set dial to 0.
- The unit can be installed in any position. The unit is waterproof (IP 68) and can be installed under water.
- Oil filled lubricators have non-return valve plugs as standard. Do not remove it.
- Empty S24 units are for oil only and must be used with a non-return valve.

English

3. Selection of dispense rate

SKF recommends using one of the following methods to select the dispense rate.

3.1 Experience based approach

If the previous selection rate is satisfactory apply the same to the new lubricator.

3.2 Grease gun equivalence

Set the lubricator time to make sure the bearing receives the same amount of lubricant as previously supplied by a grease gun.
Example:

- Bearing "X" receives 10 strokes from SKF hand operated grease gun (SKF 1077600) per month.
- One full stroke = 1,5 cm^3.

LAGD 60

- The content of the lubricator LAGD 60 is 60 ml = 60 cm^3.
- Therefore 60 cm^3 divided by 1,5 cm^3 = 40 strokes.
- 10 strokes per month equals 40 divided by 10 = 4 months.

Set the lubricator time setting on 4 months.

LAGD 125

- The content of the lubricator LAGD 125 is 125 ml = 125 cm^3.
- Therefore 125 cm^3 divided by 1,5 cm^3 = 83 strokes.
- 10 strokes per month equals 83 divided by 10 = 8,3 months.

Set the lubricator time setting on 8 months.

3.3 SKF DialSet 4.0

DialSet is a re-lubrication calculation program, which easily determines the right time setting for SKF SYSTEM 24 and SYSTEM MultiPoint automatic lubricators applications. The DialSet program and documentation MP3501 can be found on www.mapro.skf.com.

3.4 SKF LubeSelect for SKF greases

SKF LubeSelect for SKF greases is a website that can be consulted through an internet connection, which easily determines the right lubricant and lubricator setting for bearings. The website is only available on www.skf.com after logging in at @ptitute exchange.

4. Activation period

The lubricator has a time delay before the unit starts to supply lubricant. The delay varies according to the time setting selected and the operating temperature.
In most cases the lubricant in the bearing housing contains sufficient lubrication during this activation period. The activation period can be reduced by running the lubricator for 1 day on 1 month time setting before changing it to the required time setting.

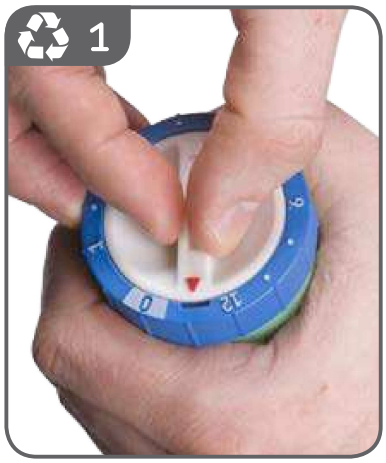
4.1 Influences on time setting

The dispense rate can be influenced by resistance in lubrication channels and the ambient temperature.
If the ambient temperature is below -10 °C (+14 °F) then the emptying time will be approximately twice that is shown on the lubricator. If the ambient temperature is above +40 °C (+104 °F) then for the LAGD 60/... and LAGD 125/... the emptying time is approximately half that shown on the lubricator.

5. Problem solving

Problem	Possible causes	Action
Lubricator does not dispense or dispenses too slowly	Incorrect adjustment	Adjust the dispense rate
	Lubricator is not activated	Activate the lubricator time set dial
	Lubrication channels are blocked	Clear the blockage by forcing grease with a grease gun through the lubrication channels
	The resistance is too high	Make sure that: - excessive grease can escape - supply lines are not longer than 300 mm - supply lines have a inner diameter of 6 mm - Lubrication point is suitable for gas driven lubricators
Lubricant dispenses too quickly	Incorrect adjustment	Adjust the dispense rate
	Short term temperature peak	No corrective action needed
Air between the piston and the lubricant	Installed longer period than the selected time	Replace the unit
	The ambient temperature is more than the acceptable limit	Replace the unit and protect the unit against high ambient temperatures
Lubricator neck breaks	Too high vibration or impact	Support the unit with the clamp LAPC 50 or protection plate LAPP 4
If the lubricator still fails to operate, contact your local SKF SYSTEM 24 supplier.		

Material safety data sheets for the LAGD 60/125 and for the lubricants used can be found at www.mapro.skf.com.

6. Disposal advice

Separate the lubricator in parts for disposal.

1. Turn the arrow on the dial to the screwdriver slot.
2. Insert a screw driver into the screwdriver slot
3. Lever the dial out of the lubricator.
4. The parts must be discarded in accordance with local regulations.

- Consider the lubricator reservoir as industrial waste (oil, greases, filters.....)
  EU waste code 150110
- Consider the dial, with battery, as battery waste.
  EU waste code 160604
- Consider the resistor plate as electronic waste.

7. Accessories

Designation	Description
LAPA 45	Angle connection 45°
LAPA 90	Angle connection 90°
LAPB 3X4E1	Lubrication brush 3 x 4 cm*
LAPB 3X7E1	Lubrication brush 3 x 6 cm*
LAPB 3X10E1	Lubrication brush 3 x 10 cm*
LAPB 5-16E1	Lift rail lubrication brush*
LAPC 50	Clamp
LAPE 35	Extension 35 mm
LAPE 50	Extension 50 mm
LAPF F1/4	Tube connection female G 1/4
LAPF M1/4	Tube connection male G 1/4
LAPF M1/8	Tube connection male G 1/8
LAPF M3/8	Tube connection male G 3/8
LAPG 1/4	Grease nipple G 1/4
LAPM 2	Y-connection
LAPM 4	4 in 1 manifold G 1/2
LAPN 1/8	Nipple G 1/4 - G 1/8
LAPN 1/2	Nipple G 1/4 - G 1/2
LAPN 1/4	Nipple G 1/4 - G 1/4
LAPN 1/4UNF	Nipple G 1/4 - G 1/4 28 UNF
LAPN 3/8	Nipple G 1/4 - G 3/8
LAPN 6	Nipple G 1/4 - M6
LAPN 8	Nipple G 1/4 - M8
LAPN 8X1	Nipple G 1/4 - M8x1
LAPN 10	Nipple G 1/4 - M10
LAPN 10X1	Nipple G 1/4 - M10x1
LAPN 12	Nipple G 1/4 - M12
LAPN 12X1.5	Nipple G 1/4 - M12x1,5
LAPP 4	Protection base
LAPT 1000	Flexible tube, 1 000 mm long
LAPV 1/4	Non return valve G 1/4
LAPV 1/8	Non return valve G 1/8

** Use only with oil filled SKF SYSTEM 24 units.*