



valid until: December 8, 2028

Fraunhofer

TESTED[®] DEVICE

SKF Lubrication
CLS-Singleline System
Report No. SK 2308-1450

Single product
**Particle Emission
Dry-Cleanroom**

Qualification Certificate

This is to certify that the product mentioned above, provided by

SKF Lubrication
Berlin, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number SK 2308-1450.

The central lubrication system CLS Single Line System „7311-50000069“ for usage in clean and dry area was assessed in compliance with ISO 14644-14. When operated under the specified test conditions, it is suitable for use in cleanrooms (with a dew point of $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and room temperature of $22^{\circ}\text{C} \pm 1^{\circ}\text{C}$) fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
Cycle time: $t_c = 6 \text{ min } 25 \text{ s}$ Break: $t_b = 6 \text{ min}$ Run time: $t_r = 25 \text{ s}$ Transported lubricant: $m = 0.833 \text{ cm}^3/\text{s}$	4
Overall result	

Please note: Transport damages, incorrect installation, oil leakage, aging behavior, corrosion, etc. can influence the test result.

SK 2308-1450
Report No. first document

Stuttgart, December 8, 2023
Place, date of first document issued

--
Report No. current document

--
Place, current date

on behalf of 
Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA

DUPLICATE

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under www.tested-device.com. Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.