

Lubricating oil list

1. GENERAL

After extensive tests with many different kinds of lubricants, we have decided to authorize the following brands of oil for use in **BAUER** compressors under the given operating conditions.

This list is up to date at the time of printing and will be reviewed continuously. Should your list or your instruction manual be older, please request the latest edition from **BAUER** Customer Services. When using any of the oils listed below, please follow the oil change intervals and the oil filling level described for the equivalent **BAUER** compressor oil in the instruction manual of your unit.

Oil type			Use						Ambient temperature
Brand name	Designation	Type	A Breathing air	N Nitrox	I Industrial air	G Helium, Argon	C CNG	GI Nitrogen	
	Special Compressor oil Part no. N28355 b) c)	S	+	+	+	+	-	+	+5 ... +45 °C
	Special Compressor oil Part no. N22138 a)	M	+	-	+	-	-	-	+5 ... +45 °C
	Special Compressor oil Part no. N26303 b)	S	-	-	-	-	+	-	+5 ... +45 °C
	Special Compressor oil Part no. N30387 b)	S	-	-	-	-	-	+	+10 ... +45 °C *

Oil type

S	synthetic oil
M	mineral oil

Application

A	approved for breathing air application with BAUER air purification systems
N	approved for nitrox application with BAUER membrane unit
I	suitable for industrial air compressor units
G	suitable for gas compressor units for dry and highly pure gases
C	suitable for compressed natural gas compressors (CNG filling stations)
GI	suitable for gas compressor units for nitrogen
a)	oil change every 1000 operating hours
b)	oil change every 2000 operating hours
c)	oil change every 1000 operating hours in case of nitrox application

Suitability

+	= suitable
◆	= partly suitable
-	= not suitable

2. TYPE OF OIL

Due to the thermal load on the compressor only high quality oil should be used. You are recommended to restrict oils to those which have been approved by us and are listed in the instruction manual or in the lubricating list on page 1.

Our compressor units are delivered ex works with lubricating oil filled into the crankcase or as consignment, depending on the model, as follows:

Breathing air compressor units:	BAUER Special Compressor oil, part no. N28355
Nitrox compressor units:	BAUER Special Compressor oil, part no. N28355
Industrial air and gas compressor units:	BAUER Special Compressor oil, part no. N28355
CNG compressor units:	BAUER Special Compressor oil, part no. N26303
Nitrogen compressor units:	BAUER Special Compressor oil, part no. N30387*

For operation under difficult conditions, such as continuous running and/or high ambient temperatures, we only recommend the BAUER special synthetic compressor oils acc. to the list on the previous page. These have proved excellent quality under ambient temperatures between +5 °C and +45 °C. For lower temperatures a compressor heating device is required which is capable of pre-heating the unit up to +5 °C.

For operation under less severe conditions, and for intermittent operation, i.e. when the compressor is not used for longer periods between the operating periods, we also recommend the use of the mineral oil acc. to the list on the previous page. This oil is suitable for ambient temperatures between +5 °C and +45 °C. Here also, a pre-heating device will be required if ambient temperatures should fall below +5 °C.

2.1. Changing the Oil Type

CAUTION

To avoid severe damage to the compressor unit when changing to another oil type, the following measures should be strictly adhered to.

- Drain mineral oil while still warm.
- Check valves, coolers, separators, purifiers and all pneumatic tubes and hoses for deposits.

If deposits are present, perform the following steps:

- Remove deposits or change valves, coolers, separators, purifiers and all pneumatic tubes and hoses.
- Change oil filter, if applicable.
- Fill compressor with the new oil.
- After approx. 100 operating hours, replace oil filter again (if applicable). and change oil.
- Top up with same oil type.

3. OIL CHANGE

Mineral oil	every 1000 operating hours, at least annually
Synthetic oil	every 2000 operating hours, at least every two years
Oil change volume	see compressor unit operating manual

BAUER compressor oil is available in the following quantities:

Oil quantity ▼ Oil type ▶	Synthetic oil N28355	Synthetic oil N26303	Mineral oil N22138	Synthetic oil N30387*
1 ltr. bottle	part no. N28355-1	part no. N26303-1	part no. N22138-1	part no.N 30387-1
5 ltr. container	part no. N28355-5	part no. N26303-5	part no. N22138-5	part no.N 30387-5
20 ltr. container	part no. N28355-20	part no. N26303 -20	part no. N22138-20	part no.N 30387-20

* Compressor oil N30387 is suitable for ambient temperatures between +10 °C and +45 °C. For lower temperatures a compressor heating device is required which is capable of pre-heating the unit up to +10 °C.