

HAT/AM Division Service Bulletin

1. General Information

Subject	:	BC greasing interval
Publication Number	:	SBDEQ 11 2019
Priority	:	2
Applicable to	:	BC Series
PGC	:	DBAX
Responsible Person	:	HAT / AM Technical Team

2. Document overview

This document contain the following:

1. General Information.....	1
2. Document overview.....	1
3. Reason for this bulletin.....	1
4. Description.....	2
5. Application.....	3
6. Required parts.....	3
7. Planning ordering parts.....	4
8. Reimbursement criteria.....	4
9. Reporting.....	4
10. Safety precautions.....	5

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3.Reason for this bulletin

Changed greasing interval for the BC series.

4.Description

With SBDEQ 03 2019 we had improved service interval for greasing at the beginning of this year.

In order to specify further the correct greasing intervals we changed the operation manual once again.

This changes are also valid for all BC 2100, 2500, 3700 & 5300 in the market.

These changes has been done:

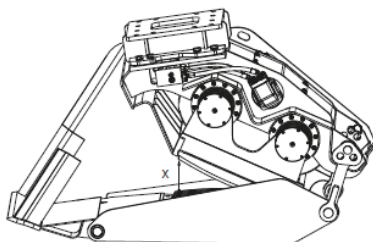
2.3 Intended use

The bucket crusher is designed for volumetric reduction of inert materials coming from demolitions.

Only attach the bucket crusher to a hydraulic carrier of a suitable load-bearing capacity. Read the carrier manufacturer's Safety and operating instructions before attaching the bucket crusher to the carrier and operating it. Observe all instructions.

Only use the bucket crusher for following operations:

- Crushing and crumbling stone, concrete, asphalt, brickwork etc...
- Crushing hard materials like granite or porphyry is permitted, provided they have less than 90 % of the jaw inlet size x.



- Crushing materials with high hardness should have less than 60 % of the jaw inlet size x.
- Removing and pushing aside shredded material to clean the work area.
- Continuous operation (24 hours/7 days) is not allowed and requires additional technical activities and service intervals. For technical support contact the Epiroc Customer Center / Dealer in your area.

Intended use also implies observing all instructions in these Safety and operating instructions.

2.4 Use other than intended

Never use the bucket crusher:

- for continuous operation (24 hours/7 days).

This damages the bucket crusher.

- for direct extraction or excavation

This damages the bucket crusher.

- for wet material

This shortens the life of the jaws. Continuously grinding shortens the life of the whole bucket crusher.

- to hit or chop

This destroys the bucket crusher.

- to move the carrier supported by the bucket crusher

This damages the bucket crusher.

- to lift or transport people

This may cause serious injury or death.

- to lift or transport loads

This damages the bucket crusher.

- with temperatures above 100 °C (212 °F) or below -20 °C (-4 °F)

This destroys the bucket crusher.

- under water

This destroys the bucket crusher.

- in explosion-hazard environments

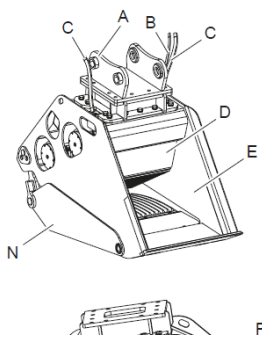
Explosions cause serious injury or death.

3 Overview

3.1 Equipment description

The illustration gives an overview of the main parts and components of the hydraulic attachment. Actual details may differ.

Make sure that the carrier circuit is in the “double effect” position (shear or clamp).



G. The set of **shaft-pulleys** transmit the motion from the hydraulic motors to the mobile support. The shaft-pulleys are connected to eccentric bolts and together form the eccentric mechanism.

H. The adjustable parts of the **tensioner system** enables you to change the jaws outlet opening. The smaller the opening, the smaller the size of the crushed material.

I. The bridges are joining the axes to the upper jaw.

J. The **wedges** fix the jaws.

K. The **jaws** are casting pieces, whose physical properties and geometry are conducive to crushing the material.

L. The **transmission housing** protects the engine operating mechanisms.

M. The **control blocks** are the hydraulic units that protect and control the start and stop, and also the motors direction shift.

N. The **lower support** is attached to the housing by two pins and two adjustable turnbuckles to enable the modification of the jaws outlet opening. The lower jaw is attached to the lower support.

7.1 Maintenance schedule

prior to shift	<p>Fill up grease at all four shaft-pulleys of the eccentric mechanism. The grease must begin to come out from the lower part of the filling hole.</p> <p>Check the bucket crusher and adapter plate for cracks and deformations. Check hydraulic lines for leaks and damage. Check the pipe clamp receiver on the carrier. Check the bolted connections at the adapter plate and tighten as required. Check the bolted connections at the hydraulic lines and tighten as required. Check the hydraulic motors (A) and the control blocks (G) for oil leaks. Check the transmission housing (F) for oil leaks. Check the plugs (B) on the shaft-pulleys and immediately replace if necessary. Check the condition of the tensioner system (C). Check the condition of the wedges (D) and jaws (E). Check the control blocks (G) for grease leakage at the seals. Check warning labels and immediately replace if necessary.</p> <p>During the first 50 operating hours: Check the fixing screws of the wedges (D) and tighten as required. Check the bolts of the tensioner system (C) are in place and proper fixed. Tighten the fixing screws of the lower bolts as required.</p>
During shift (every 2 hours)	<p>Check the lubrication level of the eccentric mechanism every two hours. Fill up grease at all four shaft-pulleys of the eccentric mechanism. The grease must begin to come out from the lower part of the filling hole.</p>
after the first 50 operating hours	<p>Change hydraulic oil filter cartridge.</p>
every 40 operating hours	<p>Check the fixing screws of the wedges (D) and tighten as required. Check the bolts of the tensioner system (C) are in place and proper fixed. Tighten the fixing screws of the lower bolts as required.</p>
every 200 operating hours	<p>Check oil filter cartridge (drain filter), replace if necessary. Check for traces of rust on the implement.</p>
every 2000 operating hours or 2 years	<p>Replace seals on the control blocks. Strong changes in temperature may damage the seals even in a shorter period of time.</p>
if necessary	<p>Replace fixing screws of the jaws wedges. Replace bent and damaged pipes. Replace damaged hoses.</p>

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7.8 Greasing the eccentric mechanism

The eccentric mechanism must be greased every 2 operating hours.

▲ WARNING Grease spills

Spilt grease can make a floor slippery. If people slip they can be injured. Grease is environmentally harmful and must not penetrate the ground or enter the water table or water supplies.

- ▶ Make sure not to spill any grease.
- ▶ Immediately clean the floor if you have spilt grease.
- ▶ Observe all safety and environmental protection provisions when handling grease.

The usage of our Special Epiroc free flow grease for the BC Series: 3363 1222 50 is mandatory and ensures a sufficient lifetime.

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5.Application

All applications

6.Required parts

None

7.Planning ordering parts

No parts need to be ordered

8.Reimbursement criteria

No reimbursement

9.Reporting

No Reporting

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10. Safety precautions

The operator must employ safe working practices and observe all related local work safety requirements and regulations, also the technical documentation (such as operators manual and safety instructions) has to be followed.

- Maintenance must only be performed by authorized, trained and specialized personnel.
- Before maintenance, repair work, adjustment or any other non-routine checks, stop the equipment, switch off the voltage, press the emergency button and depressurize the compressor/ equipment. In addition, the power insulating switch must be opened and locked or removed.
- Use only the correct tools for maintenance and repair work.
- All maintenance work shall only be undertaken when the machine has cooled down.
- A warning sign bearing a legend such as ‘Work in progress; do not start’ shall be attached to the starting equipment.
- Persons switching on remotely controlled machines shall take adequate precautions to ensure that there is no one checking or working on the machine. To this end, a suitable notice shall be affixed to the remote start equipment.
- Hydraulic attachments connecting hoses has to be disconnected before service will be provided
- Before removing any pressurized component, effectively isolate the machine from all sources of pressure and relieve the entire system of pressure.
- Scrupulously observe cleanliness during maintenance and repair. Keep dirt away by covering the parts and exposed openings with a clean cloth, paper or tape.
- Make sure that no tools, loose parts or rags are left in or on the machine.
- All regulating and safety devices shall be maintained with due care to ensure that they function properly. They may not be put out of action.
- Always wear the following personal protective equipment: Work clothing, safety shoes, safety goggles, ear protection and safety gloves when there is a cutting risk or a risk for a heat injury

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