

GMK 4080-2, GMK 4090, GMK 4100L-1
Mercedes T4F / T3 engine
Maintenance Kit P/No 04181392

Grove congratulates you for purchasing maintenance kits. Good maintenance at the right time will make a difference in the daily reliability and long-term life of your GMK. We offer this guide to help you select and utilize these kits efficiently.

Should you have any feedback or questions regarding maintenance kits, please contact Grove Product Support.

Crane reference table

Crane model	Engine		Crane S/No start	Maintenance Manual	1000h or 2000h kit P/No
GMK 4080-2	Mercedes	T4f	4080 4001	3 302 759/60	04181392
	Mercedes	T3	4080 5001		04181392
GMK 4090	Mercedes	T4f	4090 4003	3 302 648/9	04181392
	Mercedes	T3	4090 5001		04181392
GMK 4100L-1	Mercedes	T4f	4100 7001	3 302 363/4	04181392
	Mercedes	T3	4100 4001		04181392

The kits basically follow the maintenance plans as shown in chapter 5 of the Maintenance manual. Please refer to this for further details and requirements.

There may appear to be some discrepancies with the part numbers given in the Maintenance manual compared to those in the kit. The kit contains the latest recommendations, where any updates are a function of our continuous improvement.

Consider additional maintenance items when completing, Y3, Y5, Y6 or Y10 intervals, such as transmission oil and filter, hoist inspection, slewing sensor, cable drums etc. – please refer to the Maintenance manual for more details.

Kit contents

Filters

01576026	Chassis hydraulic oil tank breather	1
03134932	Super hydraulic oil tank breather	1
03135866	Angle drive oil filter	1
03140253	Chassis hydraulic oil filter 3 & 4	2
03142356	Super hydraulic oil filter 2	1
03254375	Chassis cab pollen filter	1
03329152	Chassis hydraulic oil filter 1 & 2	2
04156358	Super hydraulic oil filter 1	1
04161529	Engine oil drain screw Plug	1
04163013	Engine oil filter	1
04286260	Filter, Air Dryer	1

04183793	Fuel filter 1 & 2 kit	1
04241120	Super cab pollen filter	1
04241157	Main air filter element	1
04241158	Safety air filter element	1

Seals

00117125	Sealing ring (slewing gear)	2
00117132	Sealing ring (slewing gear)	2
00117134	Seal (transfer case)	1
00117145	Seal (axle center drives, final drives, transmission)	10
00117151	Seal (axle center drives, transfer case, angle drive)	6
01371208	Seal (axle center drives)	4
03135867	Gasket set complete (chassis hydraulic oil filter 3 & 4)	2
03326049	Seal kit (super hydraulic oil filter 2)	1
04161645	Gasket set complete (angle drive)	1
04163599	Gasket set complete (chassis hydraulic oil filter 1 & 2)	2
04165792	Gasket set (super hydraulic oil filter 1)	1

Additional maintenance items (not in the kit)

DEF (Ad-Blue) Filter kit:

1x P/No 04158759 is required for the 2000 hour / Y2 maintenance interval. Please order this additionally, as required.

Oil condition analysis:

As part of the annual maintenance, you should take a sample from the hydraulic system (chapter 7 of the maintenance manual) to determine the condition of the hydraulic oil. We recommend our oil analysis kit, which is available under part number 03141012. The kit contains: an oil sample bottle, oil description form (to be completed) and return envelope. The price of this kit includes laboratory analysis of the sample and report.



Oils and Greases

Many oils and greases will be available locally to you, we strongly recommend that the specifications given in chapter 6 of the Maintenance manual be followed when selecting any equivalents. These oils and greases have no equivalent and should be ordered from our Parts Department, as required:

- Sliding surface 'BOOM GREASE Plus'
 - 400 gr. cartridge for spray gun P/No **04299656**
 - 400 gr. cartridge P/No **04299657**
 - 10 kg can P/No **04299654**
 - 25 kg bucket P/No **04299655**
- Cylinder rod corrosion protection (400ml spray) P/No **01929824**
- Boom pinning 'BOLT GREASE 2.0' (400g cartridge) P/No **03313195**
- Suspension lubricant (1-liter bottle) P/No **02310863**, (10-Liter) P/No **02312890**

- Turntable bearing gear teeth adhesive grease (400ml spray) P/No **S-01032-63**
- Central lub. system, cardan shafts etc. high graphite, wide temperature Universal grease (1kg can) **04163374**

Suspension pressure accumulators

To perform the check of nitrogen pressure in the accumulators as explained in the Maintenance manual, we offer a test kit P/No 02257617 (gas bottle adapter and pressure regulator also required). Reference service bulletin SB D20-311 'Accumulator Charging Kit'.

Maintenance video

You may also find our video outlining some simple maintenance procedures useful, under the following link:

<https://www.manitowoccranes.com/en/Resources/videos/2016/Grove-GMKpreventive-maintenance>

Maintenance App

When planning your routine crane maintenance, consider utilizing our GMK Maintenance App.



Visit our dedicated website: <https://eu100.manitowoc.com/GMKMaintenance/>

Read the Quick Start Guide for using the App:

