

# Klüberlub E 41-152

Long-life heavy-duty grease containing MoS<sub>2</sub> for heavy plant applications



## Your benefits at a glance

- Long component life and good emergency lubricating properties due to MoS<sub>2</sub> solid lubricants
- Good wear protection and resistance to shock loads due to EP/AW additives
- Its optimum base oil viscosity ensures a good pumpability at low temperatures

## Your requirements - our solution

Operators of mobile mining machines like off-road haulers, wheel loaders, electric rope shovels or hydraulic shovels require high machine availability, reduction of downtime and low maintenance costs.

Klüberlub E 41-152 is a tried-and-tested heavy-duty grease based on high-quality mineral oil and lithium thickener. It contains MoS<sub>2</sub>, offering you excellent wear protection, especially under mixed friction conditions. The product was designed for the aggressive operating conditions of the mining industry and stone quarries, which include high loads, contamination with abrasive minerals, and water.

Performance characteristics:

- Excellent load-carrying capacity at high surface pressures
- Good corrosion protection
- Excellent wear protection
- Good adhesion and water resistance

## Application

Typical applications include bolts, guide bushes, chassis components, joints, leaf springs and sliding and rolling bearings in mining machines, e.g.

- Off-road haulers
- Articulated trucks

- Wheel loaders and earth movers
- Hydraulic mining excavators
- Electric rope shovels

If you wish to optimise the service life of your equipment or have any other questions regarding your application, our experts will be pleased to help you.

## Application notes

Klüberlub E 41-152 can be applied by brush, spatula or industrial metering systems. Single-point lubrication by lever grease gun or lubricant dispensers like Klübermatic is also possible. The ambient temperature must be considered when opting for convenient application via central lubrication systems and automatic grease pumps. Please contact us for more details on pumpability.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klüberlub E 41-152
Cartridge 400 g	+
Bucket 25 kg	+
Drum 180 kg	+

Product data	Klüberlub E 41-152
Article number	020312
Chemical composition, type of oil	mineral oil
Chemical composition, thickener	lithium soap



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Product data	Klüberlub E 41-152
Lower service temperature	-20 °C / -4 °F
Upper service temperature	120 °C / 248 °F
Colour space	black
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm
NLGI grade, DIN 51818	2
Flow pressure of lubricating greases, DIN 51805, test temperature: -20 °C	<= 1 000 mbar
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Four-ball tester, welding load, DIN 51350 pt. 04	>= 2 200 N
Four-ball tester, wear factor, DIN 51350 pt. 05, 1 h/800 N, wear scar diameter	<= 0.8 mm
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	1 - 90
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months

## Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.

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The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

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