



R&M Materials Handling, Inc.  
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## 9 Lubricants

### 9.1 Lubricant types



**Use of a low-grade or incompatible lubricant can damage the gearing or bearings. Use only the original lubricants recommended by the manufacturer.**

Usage	Installation	Trade name and number	Type	Operating temperature °C	Operating temperature °F
Hoisting gears (GEN1, GEN2 and GEN3 series) Travelling gears	Factory installed	Mobilux EP 004		-30...+120	-22...+248
	Alternative	Shell Alvania GC		-15...+80	+5...+176
	Alternative	Shell Alvania EP00		-15...+80	+5...+176
	Alternative	Shell Tivela Compound A	Synthetic	-20...+130	-4...+266
	Alternative	Neste Center Grease 00 EP		-35...+100	-31...+212
	Alternative	Castrol EPL 00		-35...+100	-31...+212
	Alternative	MOBILITH SHC 007	Synthetic	-50...+230	-58...+446
Hoisting gears (GEN4 series)	Factory installed	Mobil SHC 632	Synthetic	-35...+100	-31...+212
	Alternative	Neste Vaihteisto S 460 EP	Synthetic	-30...+100	-22...+212
	Alternative	Shell Gear Oil HDS 460	Synthetic	-25...+130	-13...+266
Bearings Couplings	Factory installed	Mobilith SHC460	Synthetic	-40...+235	-40...+455
	Alternative	Shell Albida Grease PPS	Synthetic	-30...+150	-22...+301
	Alternative	Neste Synlix	Synthetic	-40...+150	-40...+301
	Alternative	Castrol S	Synthetic	-40...+140	-40...+284
Ropes	Alternative	Shell Tellus 32		-	-
	Alternative	Bel Ray Wire Rope Lubricant		-	-
	Alternative	Bel Ray 6 in 1 Fluid		-	-
	Alternative	Brilub 50		-	-
Open transmissions Drum rim gear	Factory installed	Almagard 3752		-40...+250	-40...+482
	Alternative	Shell Albida GC		-40...+120	-40...+248
	Alternative	Neste Avora		-30...+150	-40...+301

Factory installed lubricant is being used unless otherwise specified by the customer.



If the transmission oil has to be topped up, make sure that the lubricant being added is compatible.  
 If transmission oil has to be replaced, flush out the gearbox before filling up.

If the hoist is operated for long periods in extremely cold conditions (colder than -25 °C/-13 °F) or extremely hot conditions (hotter than + 55 °C/+131 °F), it is recommended that a synthetic lubricant is used.

Lubricant Almagard 3752 is manufactured by Lubrication Engineers Inc.



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## 9.2 Lubricant quantities

### 9.2.1 Lubricant volumes, hoisting gears

Drum size	Gear type	Volume	
φ 243 mm	GEN0	300 ml	10.6 fl.oz (Imperial)
φ 303 mm	GEN1	600 ml	21.1 fl.oz (Imperial)
φ 355 mm	GEN2	900 ml	31.7 fl.oz (Imperial)
φ 406 mm	GEN3	1400 ml	49.3 fl.oz (Imperial)
φ 608 mm	GEN4	2500 ml	88.0 fl.oz (Imperial)

### 9.2.2 Lubricant volumes, travelling gears

Hoist trolley type	Drum size	Gear type	Volume	
Low headroom Normal headroom	all	GEK1	20 ml	0.7 fl.oz (Imperial)
Double girder	φ 303 mm	GS2/GS3	400 ml	14.1 fl.oz (Imperial)
Double girder	φ 355/406/608 mm	GES3	250 ml	8.8 fl.oz (Imperial)
Double girder	φ 608 mm	GES4	500 ml	17.6 fl.oz (Imperial)
Double girder	φ 608 mm	GES5	1000 ml	35.2 fl.oz (Imperial)

### 9.2.3 Lubricant volumes, drum rim gear

Drum diameter	Volume	
φ 243 mm	50 ml	1.8 fl.oz (Imperial)
φ 303 mm	70 ml	2.5 fl.oz (Imperial)
φ 355 mm	100 ml	3.5 fl.oz (Imperial)
φ 406 mm	150 ml	5.3 fl.oz (Imperial)
φ 608 mm	500 ml	17.6 fl.oz (Imperial)