

# KOMATSU®

## Product data

### Forestry Quality™

# VGC 1

*Grease especially developed for forestry machines.*

- Extremely water resistant
- Excellent corrosion protection
- Endures high shock loads
- Excellent adhesion

VGC 1 is an anhydrous calcium thickened lubricating grease based on a mixture of mineral oil and polymer. The grease contains antioxidants, corrosion inhibitors and EP/AW additives. The thickener, together with the special base oil blend, makes the product suitable for the lubrication of heavily loaded bearings and in wet and corrosive environments. The lubricating grease has excellent adhesion and water resistance. VGC 1 is especially developed for marine applications and as an universal grease for forestry, agricultural and construction vehicles. The product is also suitable in industrial applications where water washout and corrosion are problematic. The grease is easily pumpable in most of the modern centralised lubrication systems despite of its high base oil viscosity.

#### TYPICAL TECHNICAL DATA

Thickener		Anhydrous Calcium
Base oil		Mineral Oil/Polymer
Colour	Visual	Red
NLGI Grade	ASTM D217	2
Dropping point	IP 396	>140°C
Base oil viscosity at 40°C	ISO 12058	1300 mm <sup>2</sup> /s
Base oil viscosity at 100°C	ISO 12058	106 mm <sup>2</sup> /s
4-Ball weld load	DIN 51350:4	2800 N
Temperature range		-20°C to +120°C, Max +130°C

#### Mechanical stability

Penetration 60 strokes	ISO 2137	265-295
Penetration 100.000 strokes	ISO 2137	+20

#### Corrosion protection

SKF Emcor WWO distilled water ISO	11007mod	0-0
SKF Emcor WWO salt water	ISO 11007mod	2-3
Copper corrosion 24h/100°C	ASTM D4048	1b

#### Water stability

Water resistance	DIN 51807/1	0-90
Water washout 1h/80°C	ISO 11009	2%

#### Oil separation

Separation 168h/40°C	IP 121	1%
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#### Lubrication ability

SKF R2F test A	SKF	Pass
SKF R2F test B at 120°C	SKF	Pass

#### Anti-wear properties

4-ball wear scar (1h at 400N)	DIN 51350:5	0,8 mm
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#### Others

Approx. density at 20°C	IPPM-CS/03	0,94
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## KOMATSU®

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