

## Q8 Holbein HP SE BIO 46

Eco-friendly saturated synthetic ester-based hydraulic oil

### Description

Q8 Holbein HP SE Bio 46 is a superior synthetic saturated ester based lubricant that assures a long service lifetime and energy efficiency. The lubricant is readily biodegradable (>70 in 28 days) and is used in sensitive area's where the impact on the environment must be limited. Q8 Holbein HP Bio SE 46 has a very high viscosity index which leads to excellent flow properties in all temperatures.

### Applications

Q8 Holbein HP SE Bio 46 is perfect for applications in rough hydraulic systems in environmental sensitive area's and all temperatures like agriculture, forestry, water works, marine and construction.

### Benefits

Eco-friendly and limited impact on the environment

Extensive oil drain interval for a longer lubricant lifetime

### Features

Readily biodegradable

Zinc-free additives

Doesn't contain hazardous components

Excellent synthetic oil

Outstanding oxidation stability

Exceptional thermal durability

### Specifications & Approvals

Bosch Rexroth  
DIN

RE 90221 notes  
51524-3 HVLP

ISO  
ISO

11158 HV  
15380 HEES

### Properties

	Method	Unit	Typical
ISO Viscosity Grade	-	-	46
Density, 15 °C	D 4052	g/ml	0,914
Kinematic Viscosity, 0 °C	D 445	mm <sup>2</sup> /s	460
Kinematic Viscosity, 40 °C	D 445	mm <sup>2</sup> /s	48.8
Kinematic Viscosity, 100 °C	D 445	mm <sup>2</sup> /s	9.85
Viscosity Index	D 2270	-	185
Total Acid Number	D 974	mg KOH/g	0.71
Pour Point	D 97	°C	< -54
Flash Point, COC	D 92	°C	246
Air Release, 50 °C	D 3427	min	1
Rust Test, Proc. A and B, 24 h	D 665	-	pass
Copper Strip, 3 h, 100 °C	D 130	-	1a
Biodegradability, 28 days	OECD 301 B	%	>70
FZG Test, A/8.3/90	DIN 51354	load stage	12

The figures above are not a specification. They are typical figures obtained within production tolerances.

### Remarks

The energy efficiency is only valid when compared to Q8 standard hydraulic lubricants. The used technology has been tested under controlled circumstances. Improvements of the energy efficiency may vary based on applications and operating conditions.