

VDO Oil Pump

Technical Specs

Gearbox Oil Pump p/n 405.040/001/001

Leak Test

Leak proof up to: 3 Bar
Test medium: Diesel CEC-RF-03-A-84 (Test Diesel)

Working temperature: +100°C to +150°C
Storage temperature: -40°C to +150°C
Material continued usage Temperature: -40°C to +150°C

Vibration Test

Not carried-out

RF Suppression

The pump has RF suppression for:

LW
MW
KW
UKW

According to: VDON 4.3232.1 up to 10 dB
Test medium: Diesel CEC-RF-03-A-84 (Test Diesel)

Reference Specs

Drawing: K 405.040/001/001
Gearbox Oil SAE 90 DIN 51 512
Diesel CEC-RF-03-A-84
RF suppression VDON 4.3232.1
Vibration Test Not performed

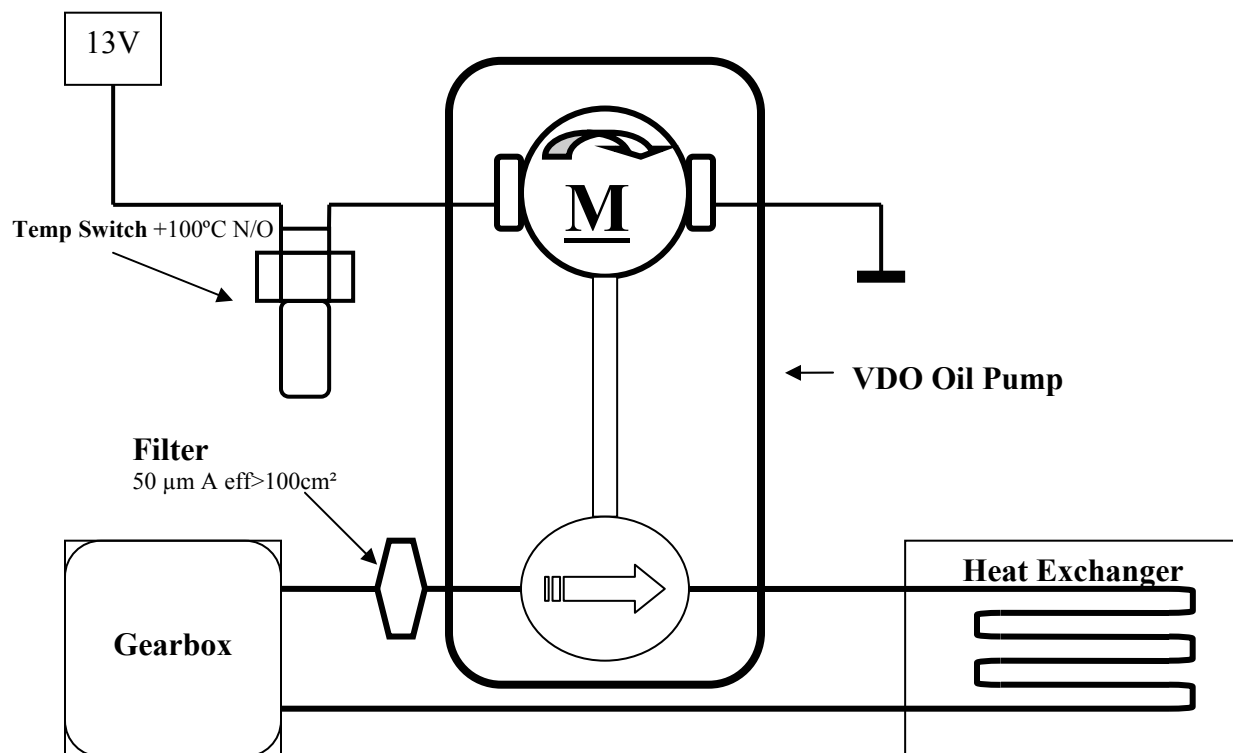
System Description

Electric pump designed to circulate gearbox oil through a cooling system.

Pump operation temperature +100°C to +150°C

Block diagram:

Transmission gearbox oil with oil cooler temperature switch



Inside Ø Heat exchanger + pipes:	d = 6.5 mm
Length of feed pipe:	c.a. = 1700 mm
Length of return pipe:	c.a. = 1700 mm
Effective heat exchanger pipe length:	c.a. = 1800 mm
Total	= 5200 mm

Main Functions

When the gear box oil temp has reached 100°C, the temp switch closes its contact and the electric pump starts the oil flow through the heat exchanger to prevent overheating.

Pump Specs

Hydrostatic gear pump with oil immersed motor and integrated RF suppression.

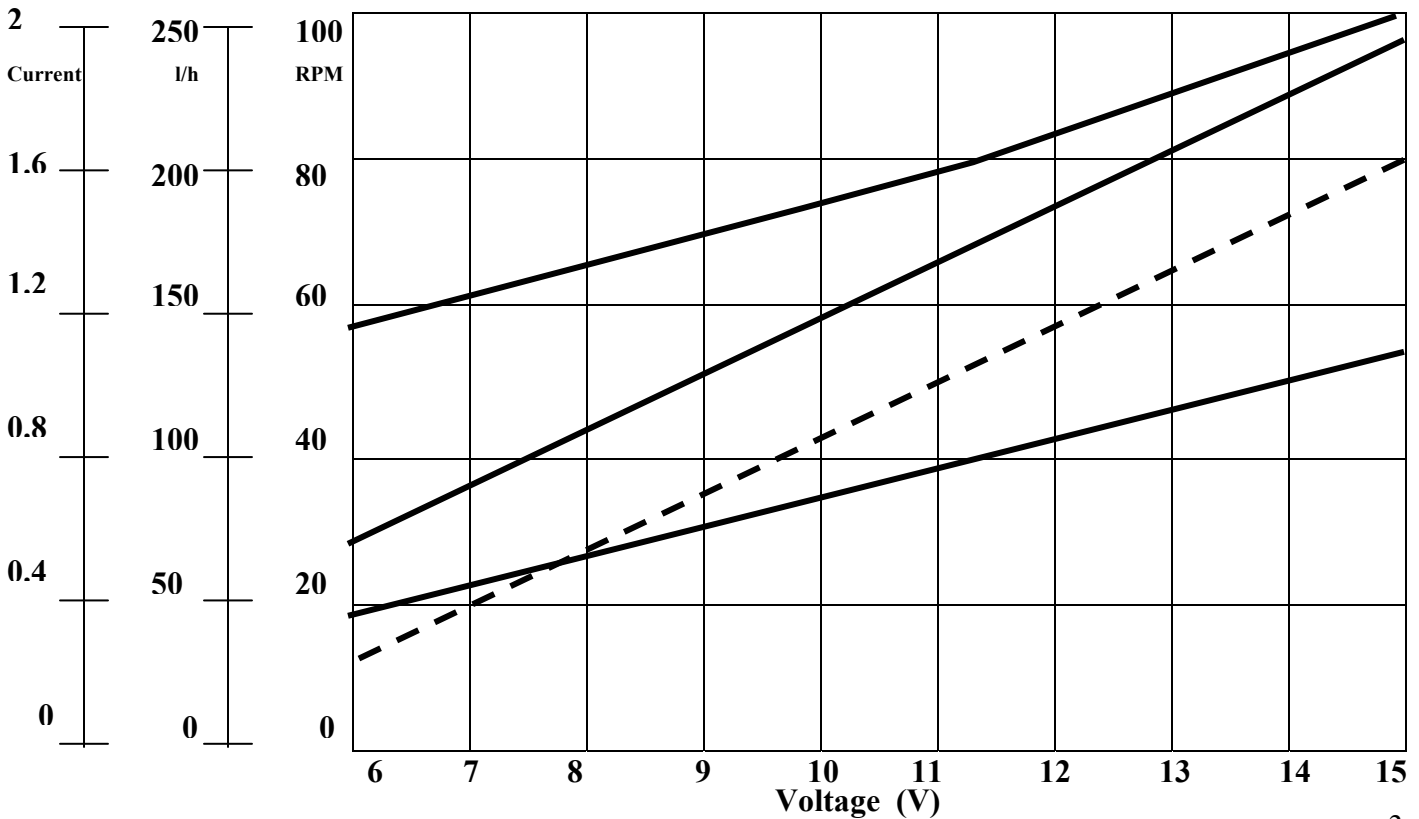
Electrical Specs

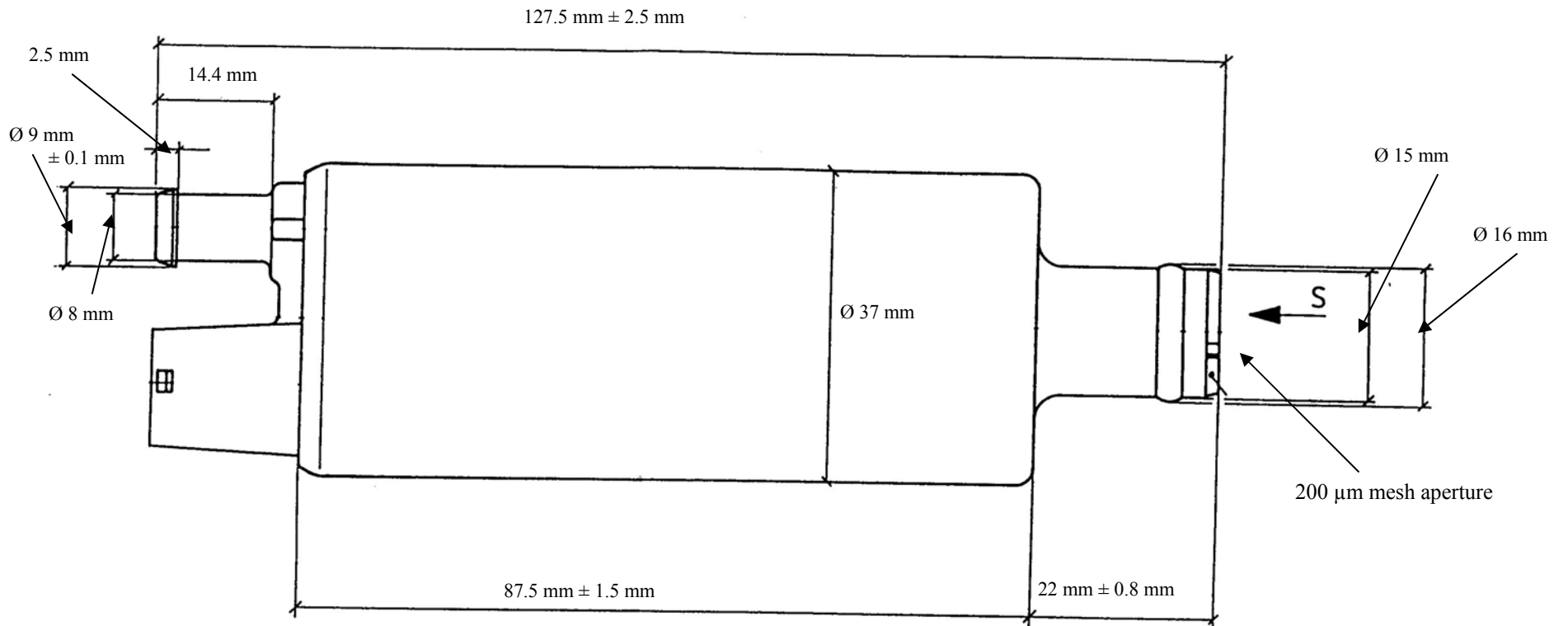
Test Voltage	13 V ± 0.1V
Operating Voltage	6 – 15V
Over-voltage Test	16.5 V for 1 hour
	20 V for 2 minutes

Test Values

The viscosity test at +20°C equals that of a gearbox oil SAE 90 at +150°C

Test	Unit	Value
Voltage	V	13 V ± 0.1V
Temperature	°C	20 ±5
Pressure	Bar	4
Volume	l/h	> 160
Current	A	< 2.5
RPM	RPM	4600





F. Alessio 30/05/03