

# HEATBASE Ltd Factsheet 33

## Problems with Oil pumps

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For many years we have been experiencing problems with Oil pumps and it's not getting any better.

Kerosene as a fuel has become more aggressive than ever before, causing damage to Oil supply lines, filter seals and Oil pump seals. The manufacturers of the pumps started fitting Bio fuel compatible seals to their products a few years ago but it has not fixed all of the problems.

Due to EU directives, Kerosene is continually having to be treated to reduce sulphur content; but sulphur provides lubrication in the kerosene. As a result the oil pump can become excessively hot due to the friction produced, this can also cause damage to the seals or the oil pump may even seize. The increased resistance can also cause damage to the motor which is used to turn it.

Other things that can cause damage to the oil pump is running out of fuel or the use of fuel additives if the oil tank is not free from water and dirt. If you choose to use an additive we would recommend you research what is required before you use it. Water can usually be found in the bottom of fuel storage tanks as a result of condensation, poorly fitting lids and seals, fuel deliveries in wet weather and ingress of snow through vent pipes and associated water from melting snow or ice; some additives supplied by Oil companies have properties similar to Biofuel, and are sold to "clean" your tank but can cause major problems if there is any reasonable quantity of water or sediment present as this contamination will pass through the oil supply line to the oil pump. Other additives will change the combustion of the appliance and therefore will need to be used constantly otherwise combustion can change massively between deliveries of fuel which in turn will lead to other issues such as boilers smoking.

The first question you should ask yourself is whether you have been experiencing a problem that the additive claims to rectify because if you aren't, will you actually benefit from its use?