

PARTS ARGUMENTER

MAN Genuine engine oil filters



Fig. 1: Engine oil filter insert

Clean oil and a long engine life guaranteed

MAN Genuine engine oil filters remove metal abrasion, dust and combustion residue from engine oil, so that it retains its lubricating qualities for as long as possible and is able to fulfil its important purposes consistently and optimally.

The purposes of engine oil are:

- Lubricating the sliding surfaces of components and thus preventing wear and tear
- Cooling through heat dissipation (e.g. at pistons)
- Corrosion protection by means of a constant oil film
- Cleaning by means of a constant oil film

✓ Customer benefits at a glance:

- Optimal protection for the MAN engine over the entire oil-change interval
- Reliable filtering of the dirt particles that cause wear and tear
- Each MAN Genuine engine oil filter element is ideally attuned to MAN engines and extensively tested in the MAN development process
- High chemical resistance, even to modern harsh engine oils
- Sustained leak prevention through the use of high-quality materials and a high finish quality

🔍 Background information at a glance:

The trend is towards oil modules

The latest generation of MAN engines is equipped with oil modules; the engine oil filter, oil cooler and blow-by oil separator (installed in D20, D26 and D38 Euro 6 engines) form a single oil module (see Fig. 2).

The low number of separate parts installed reduces the weight of the oil module and the space required in the engine compartment.

The filtering of the engine oil is carried out by a filter insert (see Fig. 1) which contains no metal and can therefore be completely incinerated. It is inserted into a housing that is permanently integrated in the oil module, so it can be replaced and disposed of in an environmentally friendly manner.

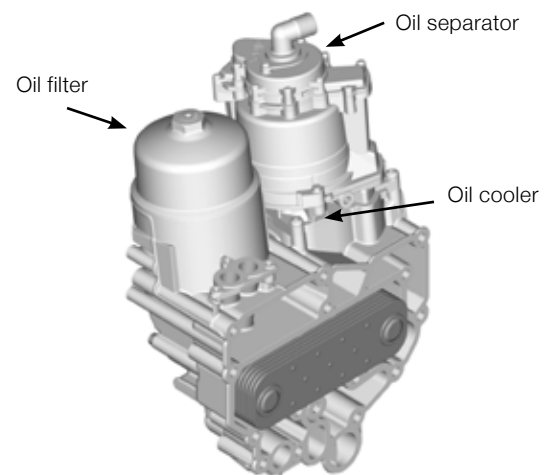


Fig. 2: Euro 6 oil module

The engine oil filter cartridges commonly found in older engines consist of a metal housing with an integrated filter insert (see Fig. 3). These filters must be entirely replaced during maintenance, and are used less and less in practice.

Advantages of an engine oil filter insert compared with a filter cartridge:

- More environmentally friendly version (can be thermally recycled)
- No engine oil leakage during a filter change



Fig. 3: Engine oil filter cartridge

Background information at a glance:

MAN Genuine engine oil filter elements reliably separate particles that cause wear.

Dirt particles of a certain size cause different levels of wear (see Fig. 4). Similarly, different engine series have different sensitivities to dirt particles, depending on, for example, their respective tolerances and the dimensions of their engine mount clearances. For this reason, the filtration ratings of MAN Genuine engine oil filter elements are harmonised precisely with the requirements of MAN engines. Particles likely to cause wear are almost completely caught by the filter element. At the same time, particles which do not cause wear can pass through the filters due to their small size; this prevents premature clogging of the filter element. Additionally, the dirt capture capacity of MAN Genuine engine oil filter elements is high enough to effectively clean the engine oil over the entire service interval. This guarantees that the engine will be reliably protected over the entire engine oil change interval.

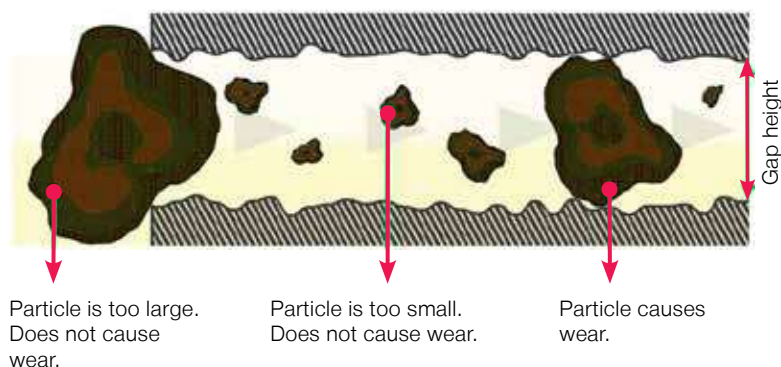


Fig. 4: Particle size and its effect on wear

Furthermore, the engine oil filter elements are characterised by their extremely high chemical resistance, even against harsh modern engine oils. They are manufactured from the best materials and finished in a high quality, guaranteeing long-term leak prevention, high resistance and perfectly fitting connections.

The MAN Genuine engine oil filter element range

Item number	Specification	For use on
51.05501-7160	Engine oil filter cartridge	D0824, D0826, D0834, D0836
51.05504-0122	Engine oil filter insert	D2066, D2676, D2868
51.05504-0098	Engine oil filter insert	D2865, D2866, D2876
51.05500-6073	Engine oil filter insert	D0834, D0836
51.05504-0087	Engine oil filter insert	D2865, D2866
51.05504-0104	Engine oil filter insert	D2840, D2842
51.05501-0013	Engine oil filter insert	D2066, D2676
51.05501-0011	Engine oil filter insert	D3876
51.05504-0096	Engine oil filter insert	D0836 290/340 hp from Euro 5 onwards

! To prevent damage to the engine, use MAN Genuine oil provided it is available in your market.

