

LYOM Purification

EXTEND OIL CHANGE INTERVALS

Save your Money – Serve our Environment

Clean oil is essential for the dependability and the lifetime of all hydraulic systems and engines. It is proven, that 70 - 80% of all disruptions and standstills are caused by contaminated oil, which can wear out hoses, tear gaskets, block valves and not least cause costly breakdowns on hydraulic pumps.

LYOM keeps clean oil clean.

LYOM is a progressive and deep-cleansing by-pass Oil Processor for all types of hydraulic oils, whether it's in a land based vehicle, construction equipment, in an off shore vessel or in a stationary industry machine. It keeps the oil clean from solid contaminants and water, during ongoing operation, without any influence on the total flow or anything else in the system.

LYOM is a supplement to the original system.

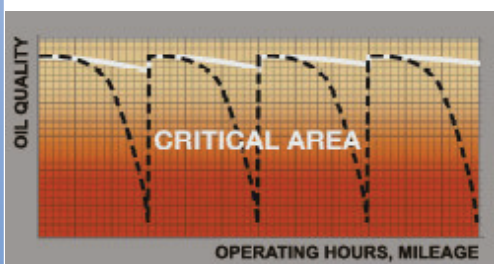
A standard filter must be so rough that it is only capable of filtering out particles that are larger than 30 to 40 microns, to enable the oil to pass through with very high flow, often 200 to 300 litres per minute. LYOM by-pass Oil Processor works with a different technique: a by-pass circuit allows only a small portion of the oil during each cycle, approximately 1 litre per minute, to pass through the textile filter element. The clean oil then is led back into the oil sump and eventually all the oil in the system has passed through the processor.

The combination of low flow and textile filter material enables the processor to clean the oil from large particles in the outer layer down to only 1 micron particles in the core and to absorb 0,5 - 1 litre of fluid contaminants.

That means, that you don't have to replace the oil, or at least that you can skip a number of oil changes.

The only maintenance required is replacing the filter element and take oil samples and this is done with the same intervals as (and instead of) oil changes recommended by the manufacturer.

Note: All original filters shall remain in place, regularly served and being allowed to function as usual!



The figure schematically shows how the oil is contaminated in cycles with traditional filtering with oil changes in given intervals (black dashed line) When the system is running, existing contaminants constantly generates new contaminants and tear on the system in a vicious circle.

With the by-pass technique (white line), with continuous purification during operation, the oil quality is maintained at the same high level and wear on the system is substantially reduced. The risks for downtime and standstills decreases by 70-80% with constantly clean oil.

Using the LYOM by-pass filter means:

Economic benefits:

- Big savings due to less oil purchases
- Significantly lower costs for handling of waste oil
- Significantly lower repair costs
- Reduced risk of breakdowns and downtime
- Higher utilisation rate of vehicles and machinery

Environmental benefits:

- Lower total oil consumption
- Less handling of contaminated oils
- Less oil transports
- Reduced CO₂ - emissions
- Less dumping of oil in the nature

LYOM

Saleby, Erik-Larsgården 11
SE 531 93 Lidköping
Sweden

Tel. +46 (0) 510-53 00 28
info@lyom.com
www.lyom.com