

An Oil Cleaning System capable of protect machines, radically extending oil change intervals, thus reducing maintenance costs & contributing to environmental conservations

– Reduce new oil purchase, reduce machine down-time, improving bottom line profits

The Oil Cleaning System, produced in Singapore, is able to extend the hydraulic and lube oil change intervals by removing solid, liquid and gaseous contaminants from the oil. Whilst keep the oil clean during operations, this system also help to reduce engine and system wear, thus reducing maintenance costs & increase productivity significantly.

How exactly does our Technology work ?

The System cleans the contaminated oil in 2 stages :

Stage 1 : Contaminated oil passes through our replaceable filter medium, made of long-strand unbleached cotton, capable of removing solid contaminants larger than 1 micron in size.

Stage 2 : The oil then passes through a heated evaporating chamber, where the liquid and gaseous contaminants are evaporated and immediately vented out via the vapour valve. By removing these contaminants like water and sulphur dioxide from the oil, we can thus prevent the formation of acids in the oil – this prevents any acid from corroding the machine.

After the cleaning stages, the clean oil returns to the engine reservoir (sump) by gravity flow.

It is important to remove contaminants up to 1 micron because :

1. Contaminants of 1 to 15 micron range are the most in quantities and also the hardest particles (source : *Noria Corporation USA*);
2. According to Society of Automotive Engineers (SAE Paper 881825), “*particles in the 4-7 micron range are responsible for up to 88% of engine wear*”.

This System contributes significantly to the environmental conservations by :

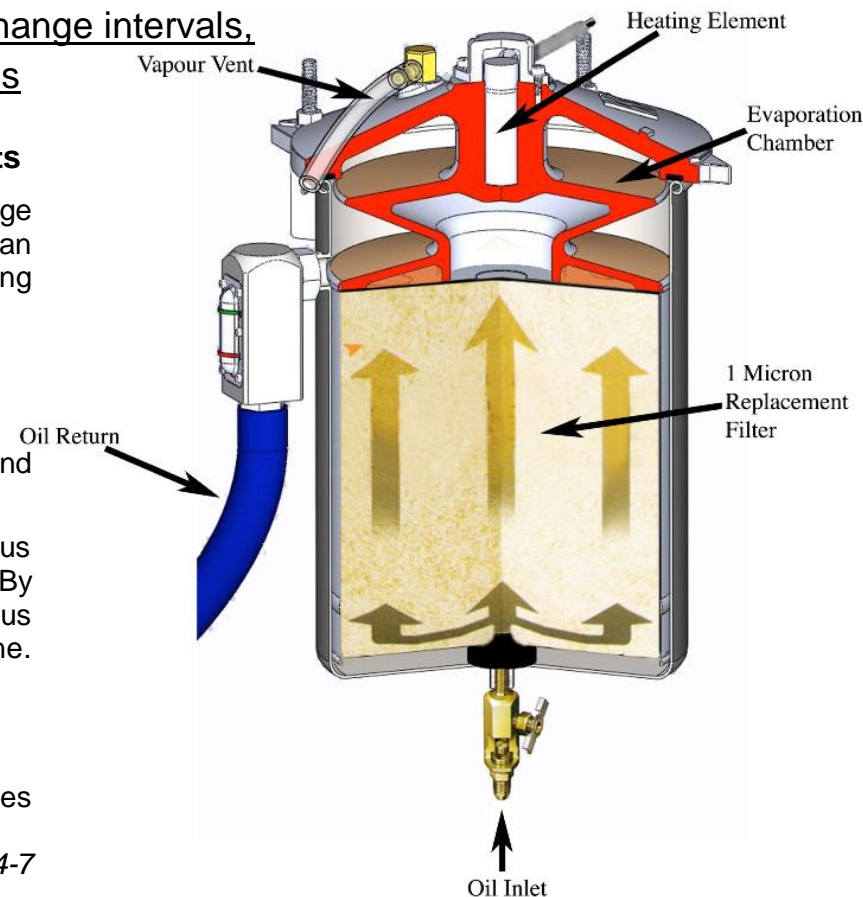
1. Reducing environmental pollution by decreasing waste storage & disposal.
2. Minimizing the chance of accidental spillage.

This System also reduces significantly operational & maintenance expenses by :

1. Greatly extending oil change intervals;
2. Significantly reducing new oil purchases;
3. Removing sludge that wears engine and equipment parts;
4. Preventing the formation of water-oil emulsion;
5. Preventing fuel dilution;

Contact dealer Indonesia : PT Findotek, Ruko Notredame Blok G No 19, Kota Deltamas, Cikarang Pusat, Bekasi 17530, Indonesia. (rev04) Telp/Fax : +62-21-8997 0350 email : sfwong111@gmail.com SMS : +62-8119 202 383

Website : www.filtersindo.com



6. Reducing waste oil handling and disposal costs;
7. Increasing engine efficiency, thereby improving fuel consumption.
8. Reducing down-time, hence improving bottom line profits.
9. Extending engine and equipment life span.

Fixed Type FS can be installed directly onto heavy equipment, car, truck, bus, generator, tug boat, speed boat, ferry, marine vessels & other machines. The system is installed parallel to the original lubricant or hydraulic system, as a bypass system to protect the machine, to clean the lube and hydraulic oil using the engine pressure.

Fixed Type	Unit	FS 50	FS 200	FS 2000	FS 4000
Capacity – Lube Oil	liter	10	30	80	300
Capacity – Hydraulic Oil	liter	50	200	2,000	4,000
Flow Rate	liter/hour	40	40	40	40
Height	Mm	187	335	440	700
Width	Mm	170	213	275	280
Weight	Kg	2.5	6.8	11.4	20.8
Power Source	DC	12 volt	12 / 24 V	12 / 24 V	12 / 24 V
	AC	---	110/220 V	110/220 V	110/220 V

Mobile or Portable Type consists of pressurized or non-pressurized system that can clean lube and hydraulic oil from storage tank. It is equipped with pump, pre-heater and a 60 micron pre-filter. This system can be table-mounted or wall-mounted, depending on its application. Typical applications include industrial machineries, thrusters, propeller stern tube, hydraulic system, mining industry, steel mills, etc.

Mobile Type	Unit	GHH180H	GHH180PH	GHH280PH	GHH380PH
Capacity – Hydraulic Oil	liter	2,000	2,000	4,000	6,000
Flow Rate	liter/hour	40	40	80	120
Dimensions	mm	600x280x650	600x280x650	600x520x650	760x560x910
Weight	Kg	37	42	57	110
Filter Quantity	No	1	1	2	3
Pump Capacity (max)	bar	--	8	8	8
Power Source	AC	230V/1.4kW	230V/1.6kW	230V/2.2kW	230V/2.4kW

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