



ENGINE WEAR IS DIRECTLY RELATED TO LUBE OIL CLEANLINESS

Mission Statement : Oil being a depleting and hence a very precious resource. We at Bhagyashree Accessories Pvt. Ltd. put forth a mission to be a pioneer in the field of oil cleaning to help the use of every drop of oil to its fullest life.

Company Profile : Bhagyashree Accessories Pvt. Ltd. was incorporated in 1994. The company has developed its own R&D base and has 13 models of centrifugal lube oil cleaner suitable for a range of engines. We now offer oil cleaning solution on all types of diesel engines manufactured worldwide.

Manufacturing and Research Facilities: The Company is equipped with modern CNC machining technology for production of centrifuge components. Other quality machining is done on high precision machines. Over last 15 years, operating persons from our company have developed significant know-how about production support aids like jigs, fixtures and tooling. Development of production support aids is done in-house as per requirement under the guidance of our engineering experts. We also undertake new developments as per OEM requirement with using PRO ENGINEER Software.

Captive Deep Draw Press Shop & Captive Foundry: The Company has established its own press shop facility. With the installation of a 140 tones deep draw press and allied machinery required for making deep draw components, the company has established full setup necessary for manufacturing of filters. The company makes all Aluminum gravity die castings for its captive requirement.

Quality Standards: The quality systems in the company are ISO9000 compliant and the company is certified with ISO 9001:2008 QMS certification by ABS QE, Houston, USA.

FACTORY SET- UP



Why Centrifuge ?

Diesel engines create soot and wear particles that contaminate their lubrication systems. These particles are often sub-micron and cause premature wear to the engine and reduce the effective working life of the engine oil. A centrifuge is a by-pass filter, typically operating of 10% oil supply from the oil pump. Couple this with a traditional full-flow filter and you have an effective cost solution to reducing wear, prolonging lube life and reducing soot emissions. The rotor is cleaned at service intervals thereby reducing waste disposal and consumable costs, reducing the cost of ownership.

CENTRIFUGAL OIL FILTRATION – PRINCIPLE OF OPERATION

The oil from a pressure point on an engine is fed through the side inlet of the Centrifuge. When the oil pressure exceeds 1.3 to 2.5 BAR, the spring loaded plunger will be pushed back and the oil enters the rotor assembly through the central spindle. The rotor assembly gets pressurized and the only exit point for the oil are the two tangentially opposed nozzles at the base. The rotor assembly has two bushes, one at the top and one at the bottom and spins freely around the spindle. The action of oil exiting through the nozzles gives it a reverse direction spin. The RPM is directly proportional to the inlet pressure. The oil is returned back under gravity through the central hole at the base of the centrifuge. At 5 BAR pressure the RPM generated for a model LC50 is 7400 which generates centrifugal force 2000 times that of gravity. Thus, any particle heavier than oil is compacted onto the inner rotor wall. At pre-determined intervals this can be easily cleaned with the help of a wooden spatula.

The centrifuge has no consumable parts and is capable of removing sub micron particles from the oil. Ensure that the minimum operating pressure is at least 4 BAR and should not exceed 7 BAR. Optimum results are achieved at 5 BAR pressure.



Applications :

- ◆ Marine Engines
- ◆ Earthmoving Equipments
- ◆ DG set
- ◆ Automotive
- ◆ Construction / Industrial



Importance of removing carbon soot by using Centrifuge.

Centrifugal force is capable of removing a wide range of particles extending into the sub-micron range. Analysis of the dirt collected by centrifuge reveals an ability to remove particles of less than one micron in size including engine cladding soot, oil films protecting critical engine components are equally as small. If not removed contaminant particles in this size range cause component wear and a consequent reduction of engine durability.

Benefits of Centrifuge for Lube Oil :

Hence reduction in wear rate of critical components - increased engine life
Improved lube oil cleanliness - Extended oil life - Extends service intervals
Extended life of full flow filters

Reduces downtime - Increases productivity - Cuts cost of ownership

Fully cleanable by - pass filtration (One time fitment)

Eco friendly product

OTHER PRODUCTS



Filtration System



Cartridge filters



Portable Hydraulic filtration unit

OUR CLIENTELE



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