

Most Oil Changes are a waste of Money!

Field tests of the new CJC™ Mobile Flushing Unit (MFU) reveal how used gear oil turns cleaner than new oil. The CJC™ MFU saves time and unexpected breakdowns, and it's is easy to operate.

The Mobile Flushing Unit from C.C.JENSEN A/S is a well-documented solution if you want to ensure that dump trucks are constantly operational, and the aim is to avoid unexpected breakdowns and save frequent oil changes. Various field tests, e.g. in the cold areas of Canada, have proven, that the CJC™ MFU exceeds expectations when it comes to quick and effective filtration of thick gear oils – even at very low temperatures.

Over a period of months, the CJC™ MFU has been tested on wheel motors and differentials of e.g. Komatsu, Caterpillar and Bucyrus. Within the time frames of the planned service checks, the oil has been cleaned to a level below the specified cleanliness (see examples below). In certain gearboxes, with hundreds of litres of oil, the task has been solved in very few hours.

A Unique Unit

The principle of operation of the CJC™ MFU is to drain and flush the oil in the gearbox through a hose. The oil can temporarily be stored in a 280 L tank in the CJC™ MFU itself, and be pumped from the tank to the gearbox through special CJC™ Filter Inserts, as many times as necessary. An oil preheater ensures that the oil can circulate with a max. speed, and a particle monitor gives the possibility to stop the process when the wanted cleanliness level has been obtained. Furthermore, the monitor measures and logs the cleanliness degree throughout the whole filtration process.

The CJC™ MFU is built on wheels and is thus easy to move. It's easy to operate and requires minimal training. Therefore, it has already turned into a sought after investment for fleet managers of dump trucks, excavators etc, who require optimum reliability of their equipment.

Quick Earnings

Today, oil changes are still common, but to drain a gearbox and fill it up with new oil is actually very expensive. The problem is well known. It is difficult to remove the old oil and therefore the remaining particles are whirled around in the new oil when it is filled into the tank. The result is unnecessary wear and too high risk of inconvenient and costly breakdowns.

The CJC™ MFU is designed and tested to filter gear oils during the planned inspection intervals and the filtered oil appears to be even cleaner than new oil. Therefore, many oil changes can now avoided - a benefit to the environment and not least to the profitability. If you focus on payback time, the investment in the flexible CJC™ Mobile Flushing Unit can be worthwhile if just one unexpected breakdown on a dump truck can be avoided!

Case Example: (in a fact box)

A CJC™ Mobile Flushing Unit (MFU) was installed on a Komatsu 930E mining truck wheel motor, containing 100 litres of Mobil SHC 680 gear oil. Oil analysis carried out before filtration and flushing with the CJC™ MFU showed a very high level of contamination referring to an oil cleanliness level ISO 25/25/23. After only 90 minutes of filtration the oil cleanliness level had been reduced to ISO 16/15/11. The company not only avoided an oil change, but managed a very quick and easy service process. Furthermore they reduced the risk of a costly breakdown!

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