

Title (en)

METHOD FOR REGENERATING LUBE OIL DISPERSANT

Title (de)

VERFAHREN ZUR WIEDERHERSTELLUNG EINES SCHMIERÖL-DISPERGIERMITTELS

Title (fr)

PROCÉDÉ DE RÉGÉNÉRATION D'UN DISPERSANT HUILEUX DE GRAISSAGE

Publication

EP 2121883 A1 20091125 (EN)

Application

EP 08743921 A 20080314

Priority

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Abstract (en)

[origin: WO2008112998A1] A method of regenerating used dispersant incorporated into lubricating oil is provided. The method comprises the steps of supplying used lubricating oil having dispersant molecules suspending particulate matter into a regenerating chamber; releasing the particulate matter by creating a stress on the bond between the dispersant molecules and the suspended particulate matter; permitting the released particulate matter to agglomerate; removing the agglomerated particulate matter from the lubricating oil; and discharging the lubricating oil back to the engine. An alternative method comprises the steps of supplying used lubricating oil having non-metallic polymer dispersant molecules suspending particulate matter into a capturing chamber, the dispersant molecules having polar ends and non-polar tails; interacting the used lubricating oil with an oil-insoluble capturing composition having a binding affinity for the particulate matter that is greater than that of the polar ends of the dispersant molecules to displace the suspended particulate matter and bind the particulate matter to the capturing composition within the capturing chamber; and discharging the lubricating oil back to the engine.

IPC 8 full level

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CPC (source: EP US)

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