

Title (en)  
PROCESS FOR PRODUCING AN OVERBASED METAL DETERGENT

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES ÜBERBASISCHEN METALLDETERGENS

Title (fr)  
PROCÉDÉ DE PRODUCTION D'UN DÉTERGENT MÉTALLIQUE SURBASIQUE

Publication  
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Application  
**EP 13808399 A 20131203**

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Abstract (en)  
[origin: WO2014099342A1] A high TBN overbased metal sulfonate detergent is prepared by reacting a hydrocarbyl-substituted organic sulfonic acid or metal salt thereof with a basic alkali metal or alkaline earth metal compound in the presence of a mono-alcohol and a carboxylic acid and reacting this mixture with carbon dioxide to form a carbonated overbased metal sulfonate. The resulting overbased metal detergent has a metal equivalent to sulfonic acid substrate ratio of 5:1 to 27:1. The product thus prepared has improved viscometrics, filterability, and TBN:ash ratio. Lubricating compositions comprising said overbased detergent display reduced friction and wear performance. The invention further relates to methods of lubricating an internal combustion engine with a lubricant containing an overbased detergent prepared as described.

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