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(54) **Marine engine lubrication**

(57) A two-stroke, cross-head, slow-speed, compression-ignited marine engine is operated by
(i) fuelling it with a diesel fuel, as a pilot fuel, and with a low sulphur fuel, as a main fuel; and
(ii) lubricating the engine cylinder(s) with a lubricant having a BN of 20 or less and having a detergent additive system comprising one or more different metal deter-

gents having a surfactant group selected from phenate, salicylate and sulphonate, or one or more complex metal detergents containing two or more different surfactant soap groups selected from phenate, salicylate and sulphonate, and a distilled cashew nut shell liquid or hydrogenated distilled cashew nut shell liquid.

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EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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A	EP 1 728 849 A1 (INFINEUM INT LTD [GB]) 6 December 2006 (2006-12-06) * the whole document *	1-12	ADD. C10N30/04 C10N30/06 C10N30/08 C10N40/25
A	EP 2 447 346 A1 (INFINEUM INT LTD [GB]) 2 May 2012 (2012-05-02) * paragraph [0001] - paragraph [0002] * * paragraph [0008] - paragraph [0010] * * paragraph [0029] - paragraph [0051] * * claims; examples *	1-12	
A	PATIL A S ET AL: "Functional fluids and additives based on vegetable oils and natural products: a review of the potential", JOURNAL OF SYNTHETIC LUBRICATION, LEAF COPPIN PUBLISHING LTD., DEAL, KENT, GB, vol. 15, no. 3, 1 October 1998 (1998-10-01), pages 193-211, XP009145968, ISSN: 0265-6582, DOI: 10.1002/JSL.3000150304 * page 193 - page 211 *	1-12	TECHNICAL FIELDS SEARCHED (IPC) C10M C10N
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Place of search Munich		Date of completion of the search 14 July 2015	Examiner Elflein, Eleonore
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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