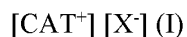
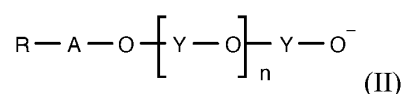


CLAIMS

1. Guanidinium-based ionic liquid compound of formula (I)



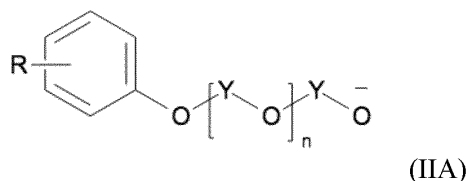
5 wherein $[\text{CAT}^+]$ represents 1,1,3,3-tetramethylguanidinium
and $[\text{X}^-]$ represents one or more species selected from compounds of formula
(II):



wherein

- 10 - A represents an aryl group comprising from 6 to 12 carbon atoms;
- R is selected from the group consisting of hydrogen, linear or branched, alkyl
or alkenyl groups comprising from 1 to 30 carbon atoms, aryl groups comprising from
6 to 30 carbon atoms;
- Y represents a linear or branched alkanediyl group comprising from 1 to 6
15 carbon atoms; and
- n represents an integer from 1 to 20.

2. The guanidinium-based ionic liquid compound according to claim 1 wherein
 $[\text{X}^-]$ responds to formula (IIA):



wherein

- 20 - R is selected from the group consisting of hydrogen, linear or branched, alkyl
or alkenyl groups comprising from 1 to 30 carbon atoms, aryl groups comprising from
6 to 30 carbon atoms; R can be in ortho, para or meta position;
25 - Y is a linear or branched alkanediyl group comprising from 1 to 6 carbon
atoms; and
- n is an integer from 1 to 15, preferably from 1 to 12.

3. The guanidinium-based ionic liquid according to claim 2 wherein in formula (IIA), R is selected from the group consisting of hydrogen, linear or branched, alkyl or alkenyl groups comprising from 1 to 30, preferably from 1 to 18, more preferably from 1 to 12 carbon atoms, R being in ortho, para or meta position.

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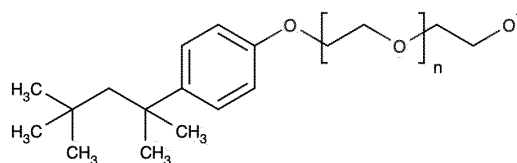
4. The guanidinium-based ionic liquid according to claim 3 wherein in formula (IIA), R represents a linear or branched alkyl group comprising from 1 to 12 carbon atoms, R being in para position.

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5. The guanidinium-based ionic liquid according to anyone of claims 1 to 4 wherein Y is a linear or branched alkanediyl group comprising from 1 to 3 carbon atoms, preferably Y is $-\text{CH}_2-\text{CH}_2-$.

6. The guanidinium-based ionic liquid according to anyone of claims 1 to 5 wherein $[\text{X}^-]$ responds to formula (IIB):

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(IIB)

wherein n is comprised between 4 and 10.

7. The guanidinium-based ionic liquid according to anyone of claims 1 to 6 wherein $[\text{X}^-]$ is tert-octylphenylpolyethoxyethanolate with $n = 8$ or 9 .

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8. A lubricant composition comprising:

- from 30.0 to 99.95 % of at least one base oil,
- from 0.05 to 15.0 % of at least one guanidinium-based ionic liquid

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defined in claims 1 to 7,

the percentages being defined by weight of component as compared to the total weight of the composition.

9. The lubricant composition of claim 8, wherein it comprises at least one detergent selected from neutral and overbased detergents other than the ionic liquid having a Total Base Number according to ASTM D2896 of from 20 to 450 mg KOH/g.

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10. The lubricant composition of claim 9, wherein it comprises from 1 to 35% weight of neutral and overbased detergents, other than the ionic liquid, with regards to the total weight of the lubricant composition.

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11. The lubricant composition according to any one of claim 8 to claim 10, wherein the percentage by weight of guanidinium-based ionic liquid of formula (I) relative to the total weight of lubricant composition is chosen such that the BN provided by the guanidinium-based ionic liquid represents at least 3% of the total BN of said lubricant composition.

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12. The lubricant composition according to any one of claim 8 to claim 11, which has a Total Base Number (TBN) value according to ASTM D2896 of above 5 mg KOH/g.

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13. Use of the guanidinium-based ionic liquid defined in claims 1 to 6 as detergent in a lubricant composition, to reduce and/or limit and/or prevent and/or delay the formation of deposits or to reduce the deposits already present in the internal parts of a combustion engine.

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14. Use of the guanidinium-based ionic liquid defined in claims 1 to 6 as anti-corrosion additive in a lubricant composition.

15. Method for lubricating a two-stroke marine engine and four-stroke marine engines, preferably two-stroke marine engine, said method comprising application to said marine engine of the guanidinium-based ionic liquid defined in claims 1 to 6 or the lubricant composition as defined in claims 8 to 12.

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