

Title (en)

A TRIBOELECTROSTATIC SENSOR ALLOWING INSTANTANEOUS STATE OF OILS TO BE MONITORED AND OIL REMAINING LIFETIME DETECTION METHOD THEREFORE

Title (de)

TRIBOELEKTRISCHER SENSOR ZUR ÜBERWACHUNG DES MOMENTANEN ZUSTANDS VON ZU ÜBERWACHENDEN ÖLEN UND VERFAHREN ZUR DETEKTION DER RESTLEBENSDAUER VON ÖL DAFÜR

Title (fr)

CAPTEUR TRIBOÉLECTROSTATIQUE PERMETTANT DE SURVEILLER L'ÉTAT INSTANTANÉ D'HUILES ET PROCÉDÉ DE DÉTECTION DE DURÉE DE VIE RESTANTE D'HUILE ASSOCIÉ

Publication

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Application

EP 20845093 A 20200720

Priority

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- TR 2020050634 W 20200720

Abstract (en)

[origin: WO2021015701A1] Invention relates to a triboelectrostatic sensor (1) that enables the detection of the instantaneous state and remaining life of oils (41) by using in the moving and stationary systems. More specifically, the present invention relates to a triboelectrostatic sensor (1) that can be mounted on moving and stationary systems, enables the detection of remaining life of oils (41) by allowing monitoring of instantaneous state of the oils (41) that are used or in usage, thus with a clear determination of the time to change the oil (41), allows the user to notice any damage that may arise from the decrease in oil (41) performance (lubricating property) in moving systems before they occur.

IPC 8 full level

G01N 27/60 (2006.01); **G01N 33/28** (2006.01)

CPC (source: EP)

G01N 27/60 (2013.01); **G01N 33/2888** (2013.01)

Citation (search report)

- [A] WO 2010023632 A1 20100304 - SABIC INNOVATIVE PLASTICS IP [NL], et al
- [X] HARVEY T.J ET AL: "Investigation of electrostatic charging mechanisms in oil lubricated tribo-contacts", TRIBOLOGY INTERNATIONAL, vol. 35, no. 9, 1 September 2002 (2002-09-01), AMSTERDAM, NL, pages 605 - 614, XP055939754, ISSN: 0301-679X, DOI: 10.1016/S0301-679X(02)00060-9
- [X] HARVEY T J ET AL: "Effect of oil quality on electrostatic charge generation and transport", JOURNAL OF ELECTROSTATICS, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 55, no. 1, 1 May 2002 (2002-05-01), pages 1 - 23, XP004342300, ISSN: 0304-3886, DOI: 10.1016/S0304-3886(01)00180-2
- See references of WO 2021015701A1

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