

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
19 September 2024 (19.09.2024)



(10) International Publication Number
WO 2024/192015 A1

(51) International Patent Classification:

C10M 137/10 (2006.01) C10N 30/00 (2006.01)
C10N 10/04 (2006.01) C10N 40/25 (2006.01)

DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(21) International Application Number:

PCT/US2024/019558

(22) International Filing Date:

12 March 2024 (12.03.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/451,749 13 March 2023 (13.03.2023) US

Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i))
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))

(71) Applicant: **CHEVRON ORONITE COMPANY LLC**
[US/US]; 6001 Bollinger Canyon Road, San Ramon, California 94583-0806 (US).

(72) Inventors: **LEE, David S.**; Chevron Corporation, P.O. Box 6006, San Ramon, California 94583-0806 (US). **MOURHATCH, Ramoun**; Chevron Corporation, P.O. Box 6006, San Ramon, California 94583-0806 (US). **MCLAUGHLIN, Michael**; Chevron Corporation, P.O. Box 6006, San Ramon, California 94583-0806 (US). **BO-HAN, Patrick**; Chevron Corporation, P.O. Box 6006, San Ramon, California 94583-0806 (US). **HATTORI, Taiki**; Chevron Corporation, P.O. Box 6006, San Ramon, California 94583-0806 (US).

(74) Agent: **PIO, Michael Sungjoon** et al.; Chevron Corporation, P.O. Box 6006, San Ramon, California 94583-0806 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ,

(54) Title: AFTERTREATMENT SYSTEM FRIENDLY ENGINE OIL FORMULATION

(57) Abstract: This disclosure describes a method of reducing catalyst poisoning in a diesel engine equipped with an aftertreatment system comprising a selective catalytic reduction device. The method includes lubricating the engine with a lubricating oil composition. The lubricating oil composition includes a major amount of oil of lubricating viscosity and a phosphorus-containing additive.

WO 2024/192015 A1