AU-A-26947/88\_\_\_\_ ESSO 18.12.87 | H/4-A7, 4-E, 4-F2A, 4-F2E) N(1-C2, 2, 4-D, 6-E) H04 (H07) 29-180131/25 \*EP -321-298-A **EXXON RES & ENG CO** 18.12.87-US-134697 (21.06.89) C10g-45/62 Prodn. of lubricant oil base stock or blending stock - by isomerising PREFERRED CATALYST slack wax on crushed catalyst with metal oxide support and The metal is a noble metal of Gp. VIII, on a transition Al<sub>2</sub>O<sub>3</sub>. The largest cross-sectional dimension of the sized Gp ≠ Vill metal catalyst is 0.39688-0.79375 mm. RIBE DE ES FR GB IT NL) C89-079539 PREFERRED PROCESS The wax contains 5-15% of oil, and is isomerised at 270-Lubricant base oil base stock or blending stock is made by 440 deg. C, 500-3000 psi H2, gas rate 178.1-1780 l gas/i oil, isomerising slack wax on a halogenated refractory metal oxide and space velocity 0.1-10 vols./vol/h. The isomerisate is catalyst loaded with hydrogenation metal. fractionated into a fraction and/or lube oil fraction boiling The catalyst is prepd. by depositing Gp. VIII metal(s) in the lube oil range (pref. 330+ deg. C), and this fraction on a particle extrudate refractory metal oxide support, fluoriding with HF soln. crushing to expose the inner surface and is dewaxed. Unconverted wax recovered in the dewaxing step and/or the fraction boiling above 600 deg. C is recycled to give a material with particle size not above 0.79375 mm across the largest cross-sectional dia, and activating in H, to the isomerisation. at 350-500 deg. C for at least 1-48 h. Opt., the support may have particle size not above 0.79375 EXAMPLE (A) A 1/16 inch Al,O, extrudate carrying 0.6 wt. % Pt mm before the metal is deposited. and 1% Cl was soaked in 11.6% aq. HF soin., washed with water, dried at 150 deg. C in a vacuum oven, crushed to ADVANTAGE High yields of prods. boiling in the 370+ deg. C. ranger particles of 1/30 inch, and activated in 50 psi flowing H, by are obtd. Prods. obtd. from wax contg. 5-10% of oil have heating from room temp. to 100 deg. C in 2 h, at 100 deg. C higher VI than do prods. from wax with 0% oil or 20% oil. for 1 h, from 100-450 deg. C in 3 h, and at 450 deg. C for EP-321298-A+

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