AU-A-26964/88 __ ESSO 18.12.87 H(4-A7, 4-E, 4-F2E) N(1-C2, 2, 4-D) H07 (H04) 89-180137/25 *EP -321-304-A **EXXON RES & ENG CO** 18.12.87-US-134998 (21.06.89) C10g-45/68 Pt/8.1% F/Al₂O₃ catalyst at 315-327°C., 1200 psig and 0.99-1 Lubricating oil prodn. from wax - by catalytic isomerisation at low LHSV with an H2 rate of (a) 2573, (b) 5035 or (c) 9565 scf/ hydrogen rate bbl.. The 370°C. conversion was (a) 22, (b) 25.1, (c) 24.7 R(BE DE ES FR GB IT NL) C89-079545 wt.%. The yield of waxy 5.85 cS/100°C oil was (a) 71.0, (b) 66.4, (c) 69.0 wt. %. (10pp 367CGDwgNo0/0). (E)ISR: No Search Report. Produ. of lubricating oil with a 100°C viscosity of 5.6-5.9 cS is effected by catalytic isomerisation of wax under conventional temp., pressure and space velocity conditions but with a low H2 rate of 500-5000 scf/bbl.. ADVANTAGE The low H2 rate increases the yield of lubricating oil and reduces its wax content. PREFERRED CONDITIONS The feed is a synthetic wax or slack wax. The process is operated at 270-400°C, and 500-3000 psi with a LHSV of 0.1-10 and an H, rate of 2000-4000 (esp. 2000-3000) scf/bbl.. using a catalyst comprising a Group VIII metal (esp. Pt) on

a fluorided y-alumina support.

A hydrotreated slack wax was isomerised on a 0.6%

EXAMPLE

IEP-321304-A