

<p>90-275077/36 E18 H04 CHEVRON RES & TECHN 17.02.89-US-311969 (23.08.90) C07c-05/22 Lubricating oil prodn. from waxy feeds - by isomerisation on alumino:phosphate molecular sieve catalyst C90-118885 R(AT BE CH DE DK ES FR GB IT LU NL SE) N(AU CA JP)</p>	<p>CALI 17.02.89 *WO 9009-363-A E(31-P2D) H(4-E, 7-A, 7-G4, 7-G6) N(6-B)</p>
<p>Prodn. of lubricating oils is effected by isomerising a waxy feed at 15-2000 psig using a catalyst comprising:</p> <ul style="list-style-type: none"> (a) an intermediate-pore-size non-zeolitic molecular sieve (I) contg. tetrahedral AlO_2 and PO_2 units; and (b) at least one Group VIII metal. 	<p>of at least 70% (esp. at least 90%). Isomerisation is effected at 200-475 (esp. 250-450) deg. C and 50-1000 (esp. 100-600) psig, with a LHSV of 0.1-20 (esp. 0.1-5). The prod. is hydrofinished, pref. at 190-340 deg. C and 400-3000 psig in the presence of a metallic hydrogenation catalyst.</p>
<p>ADVANTAGES</p>	<p>PREFERRED CATALYSTS</p>
<p>The prods. have a low pour point, a high V.I., a low viscosity for their boiling range (giving reduced frictional resistance, reduced engine wear and increased fuel efficiency), high oxidative and thermal stability, and low volatility.</p>	<p>(I) is a silicoaluminophosphate, esp. SAPO-11, SAPO-31 or SAPO-41. The metal is Pt and/or Pd.</p>
<p>PREFERRED CONDITIONS</p>	<p>PREFERRED PROPERTIES</p>
<p>The feed is a gas oil, lubricating oil stock, synthetic oil, foots oil, slack wax or de-oiled wax with a wax content of at least 25% (esp. at least 80%) and a paraffinic C content</p>	<p>The prods. have a V.I. of 120-180 and a pour point below -9 deg. C.(38pp367SLDwgNo0/4). (E) ISR: US4440871 US4650917 US4686029 US4689138 US4710485 US4740650 US4788378 US4824554</p>

IWO9009363-A