ID

Isomerised Dewaxed Hydrocracked White Oils

SIP LTD

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SIP LTD

SIP ltd is a leading supplier of speciality base oils and fluids throughout Europe, Africa and the Middle East.

SIP oils and fluids are used in a wide variety of applications, including metal working fluids, transmission oils, drilling fluids and in pharmaceutical and cosmetic preparations.

SIP maintains over 20,000 MT storage capacity within Europe and can deliver products by ship, road tanker, barge, iso container, flexibag and drums. Independent inspectors certify that all products meet quality guarantees.

SIP has ISO 9001:2008 accreditation.

ID Series

ID (Isomerised Dewaxed) base oils are catalytically cracked and reformed mainly into iso-paraffins leading to the production of oils which have excellent low temperature fluidity, volatility and thermal / oxidative stability characteristics.

ID base oils are ideal for formulating high performance lubricants such as shock absorber and steering fluids, automotive hydraulic fluids, Automatic Transmission Fluids and premium compressor oils.

Features of the ID Series

- Low Temperature Fluidity.

  The low proportion of n-paraffins in the ID products make them ideal for blending lubricants which require improved low temperature fluidity and low pour points.

- Superior Oxidation / Thermal Stability.

  Under severe conditions with the appropriate additives, ID base oils can provide equivalent oxidation / thermal stability performance to lubricants blended with polyalphaolefins.

- High VI.

  The high proportion of iso-paraffins gives high VI's of between 100 & 130, depending on viscosity.

- Low Volatility.

  Due to their high iso-paraffinic content, the ID oils have low Noack volatility levels, whilst having high flash points.

- Colourless / Odourless.

  ID products are "water white" typically with a +30 Saybolt colour.

Typical Qualities of ID Isomerised Dewaxed Hydrocracked Oils

	Product / ASTM Method	ID 4	ID 7	ID 9	ID 12	ID 20	ID 32	ID 46
Viscosity at 40°C, cSt	D445	3.7	7.5	9.5	12.1	19.5	32.3	43.2
Viscosity at 100°C, cSt	D445	1.4	2.3	2.55	3.1	4.2	5.97	7.2
Flash point – COC, °C	D92	125	158	170	184	220	234	251
Flash point – PMCC, °C	D93	112	144	-	-	-	-	-
Pour point, °C	D97	<-48	-33	-33	-30	-18	-15	-12
Density at 15°C, kg/l	D1298	0.82	0.824	0.830	0.828	0.833	0.841	0.845
Aniline point, °C	D611	85	102.4	104.5	109.6	116	-	126.6
Carbon type analysis	D2140							
Aromatics C_A %		0	0	0	0	0	-	-
Naphthenics C_N %		36	28	28	26	23	-	-
Paraffinics C_P %		64	72	72	74	77	-	-
Colour – Saybolt	D 156	30	30	30	30	30	30	30
Noack at 200°C, %wt	D5800 mod	-	24	17	6.2	2	-	-
Noack at 250°C, %wt	D5800	-	-	-	40.5	20	7.9	4.2
Odour		Very mild	Very mild	Very mild	Very mild	Very mild	Very mild	Very mild

Detailed specifications are available on request from SIP.

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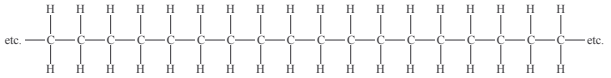
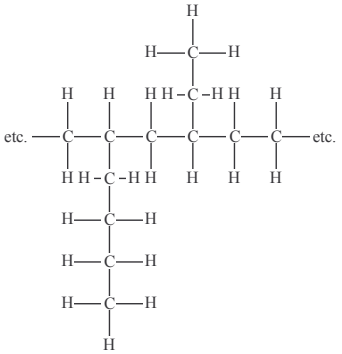
What is the Isomerisation dewaxing process?

Linear long chain alkanes (n-paraffins) C_{18}-C_{45} which crystallise easily forming waxes….



..are converted over a catalyst with high pressure and high temperature to…..



….branched short chain alkanes (iso-paraffins) C_9-C_{25} that do not crystallise easily and therefore have very low pour points and other qualities similar to those of PAO's.