



ATO 24

ÖLANALYSEN/OW-20



**ARAL Super Tronic
LL IV FE SAE OW-20**



Castrol II IV FE OW-20



**Fuchs TITAN GT1
Longife IV OW-20**



**LIQUI MOLY TOP
TEC 6200 OW-20**



Mobil 1 ESP OW-20



Motul SAE OW-20



**Shell Helix Ultra
Professional OW-20**



**Total INEO Long Life
FUEL Economy OW-20**



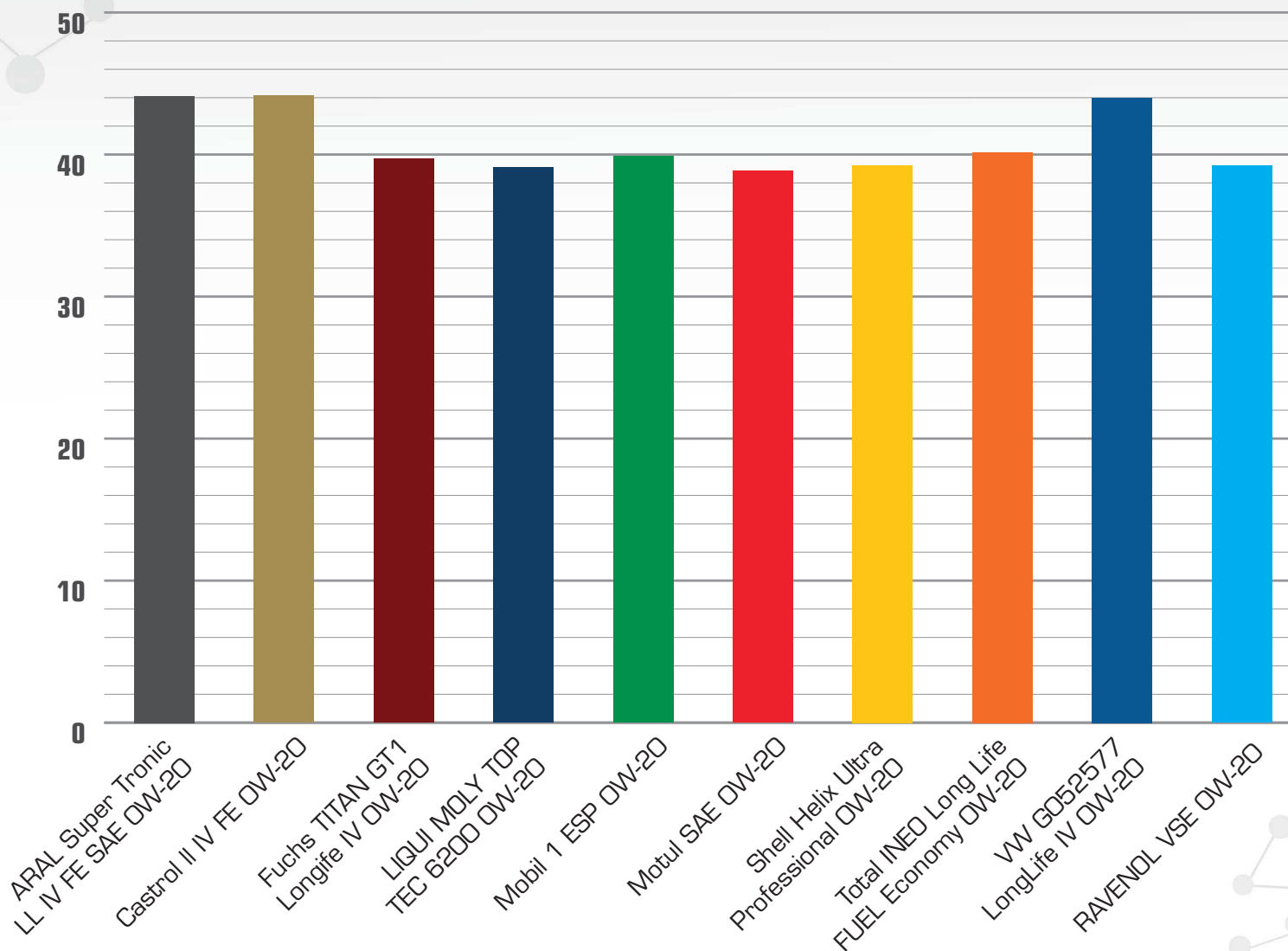
**VWV G052577
LongLife IV OW-20**



RAVENOL VSE OW-20

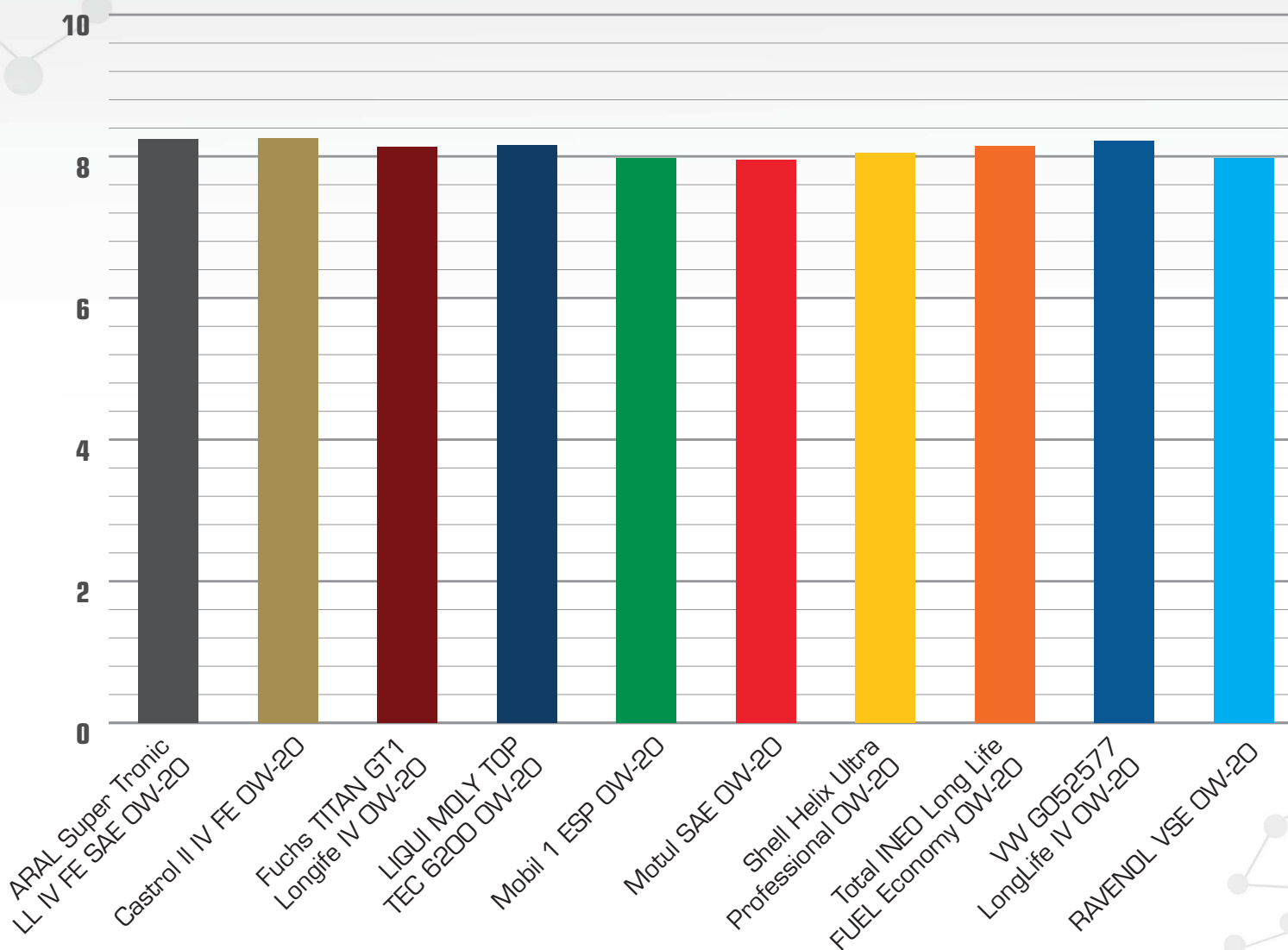
Viskosität 40°C

E-DIN 51659-2:2014-08, mm²/s



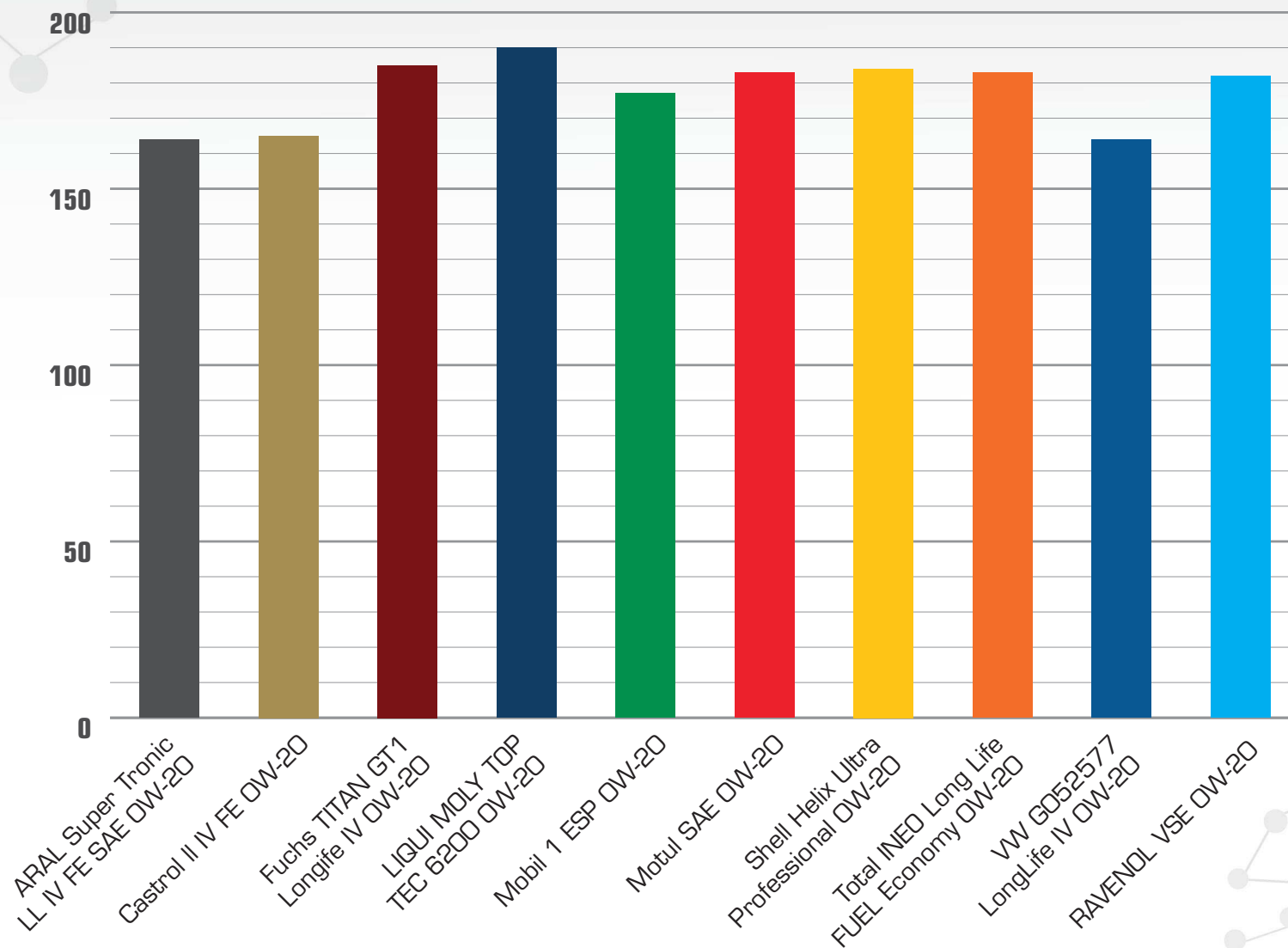
Viskosität 100°C

E-DIN 51659-2:2014-08, mm²/s



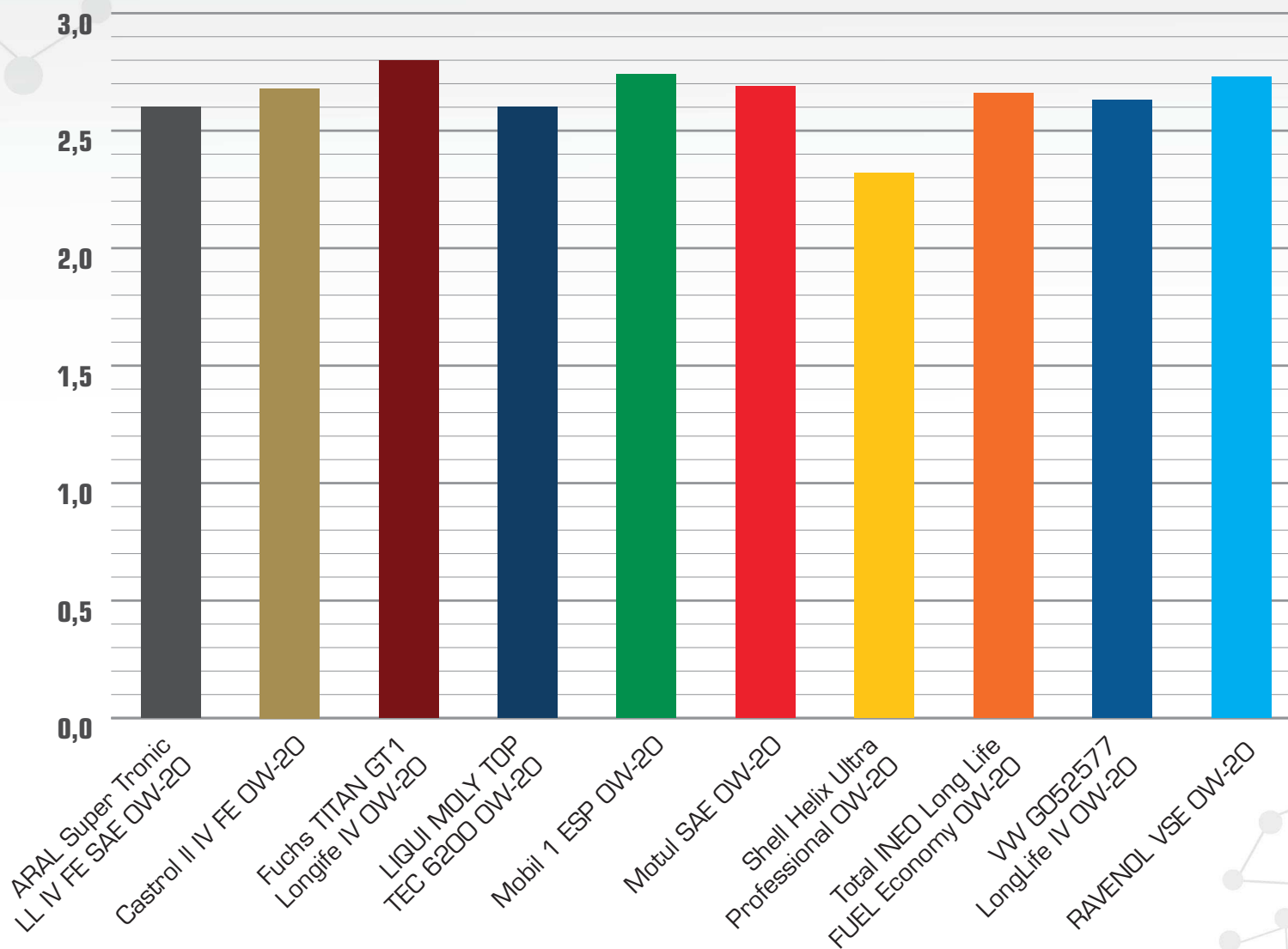
Viskositätsindex

DIN ISO 2909:2004-08



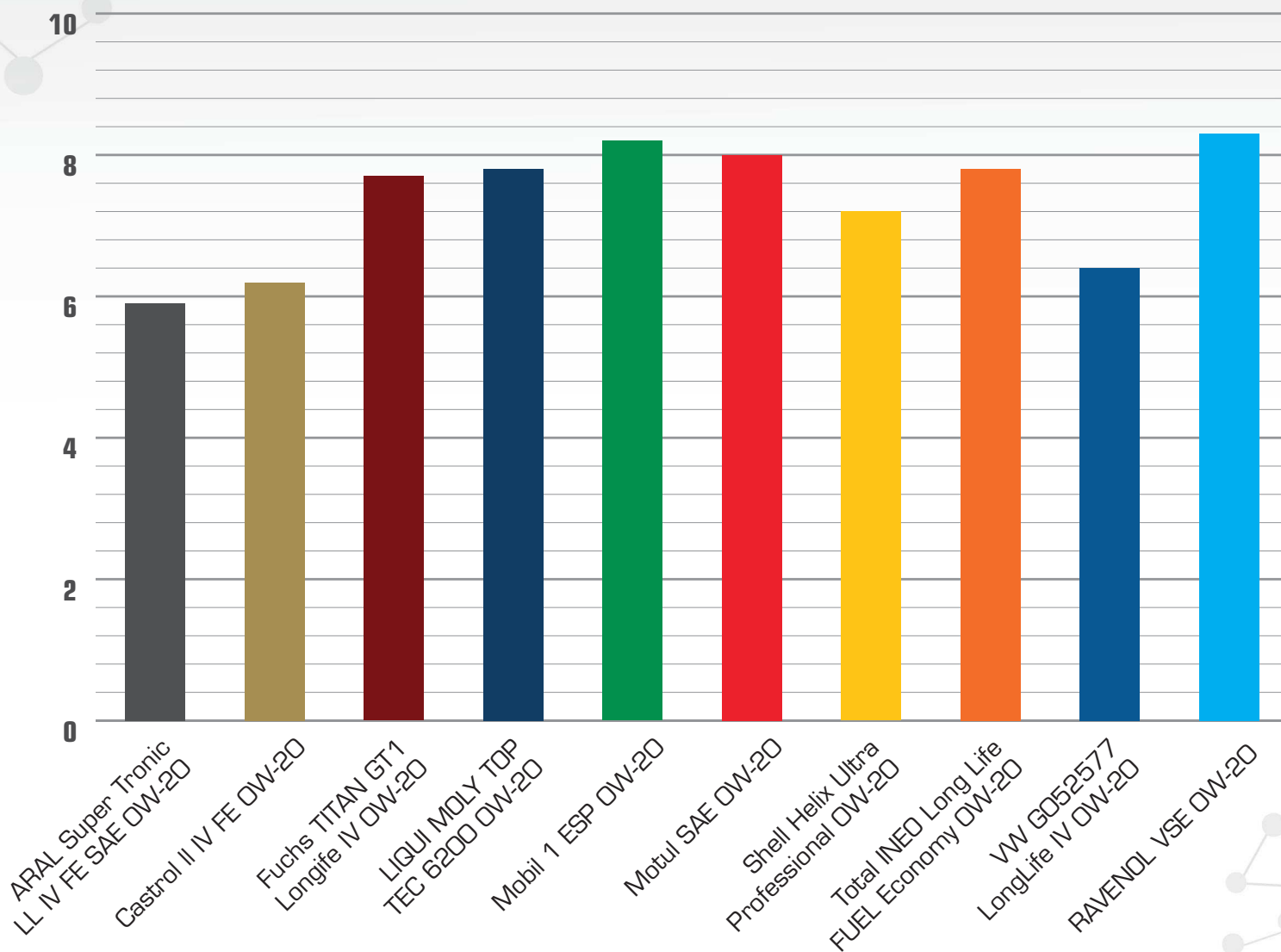
HTHS

ASTM D 5481:2013, mPa·s



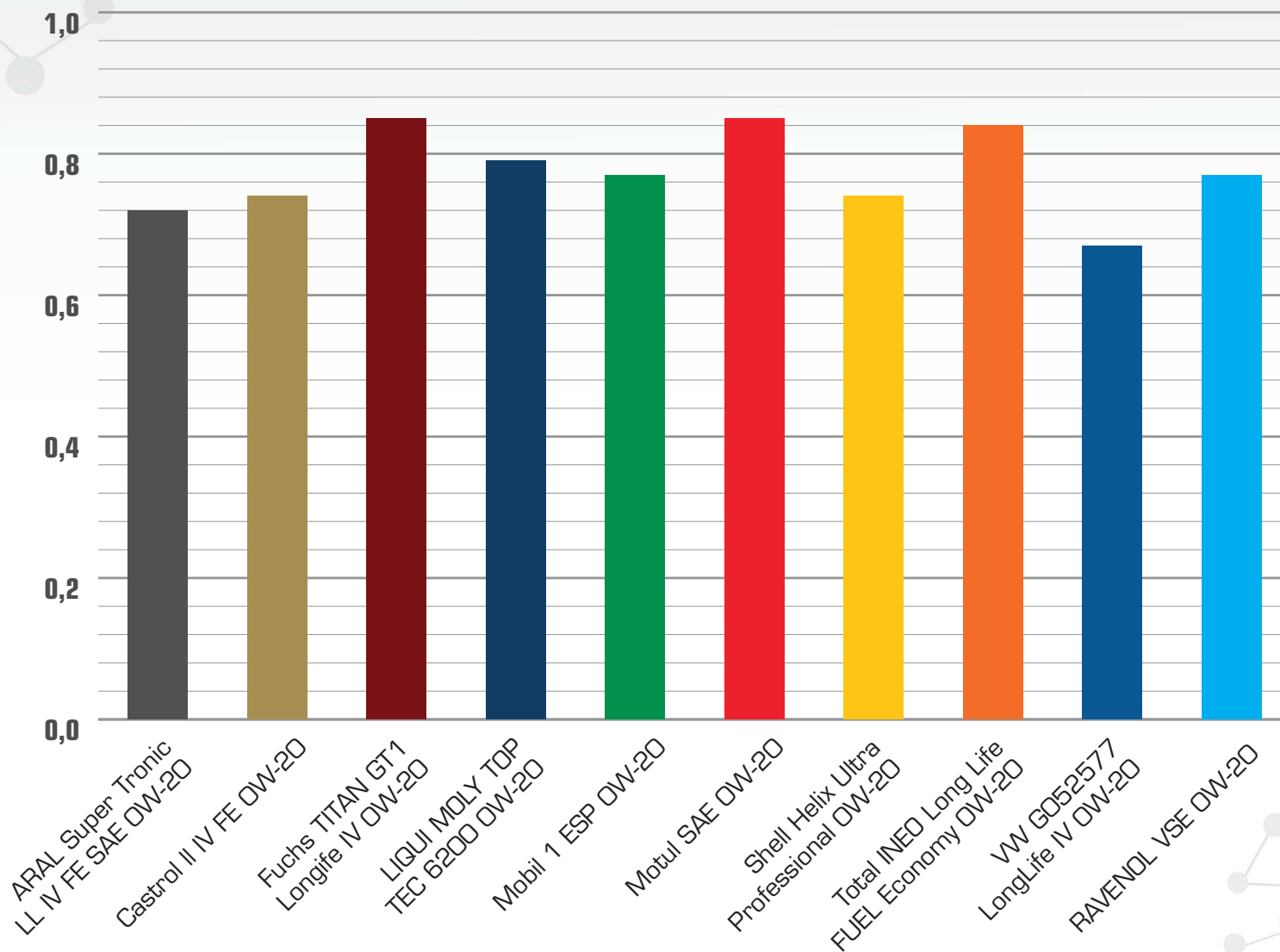
TBN

ASTM D 2896-2011, mgKOH/g



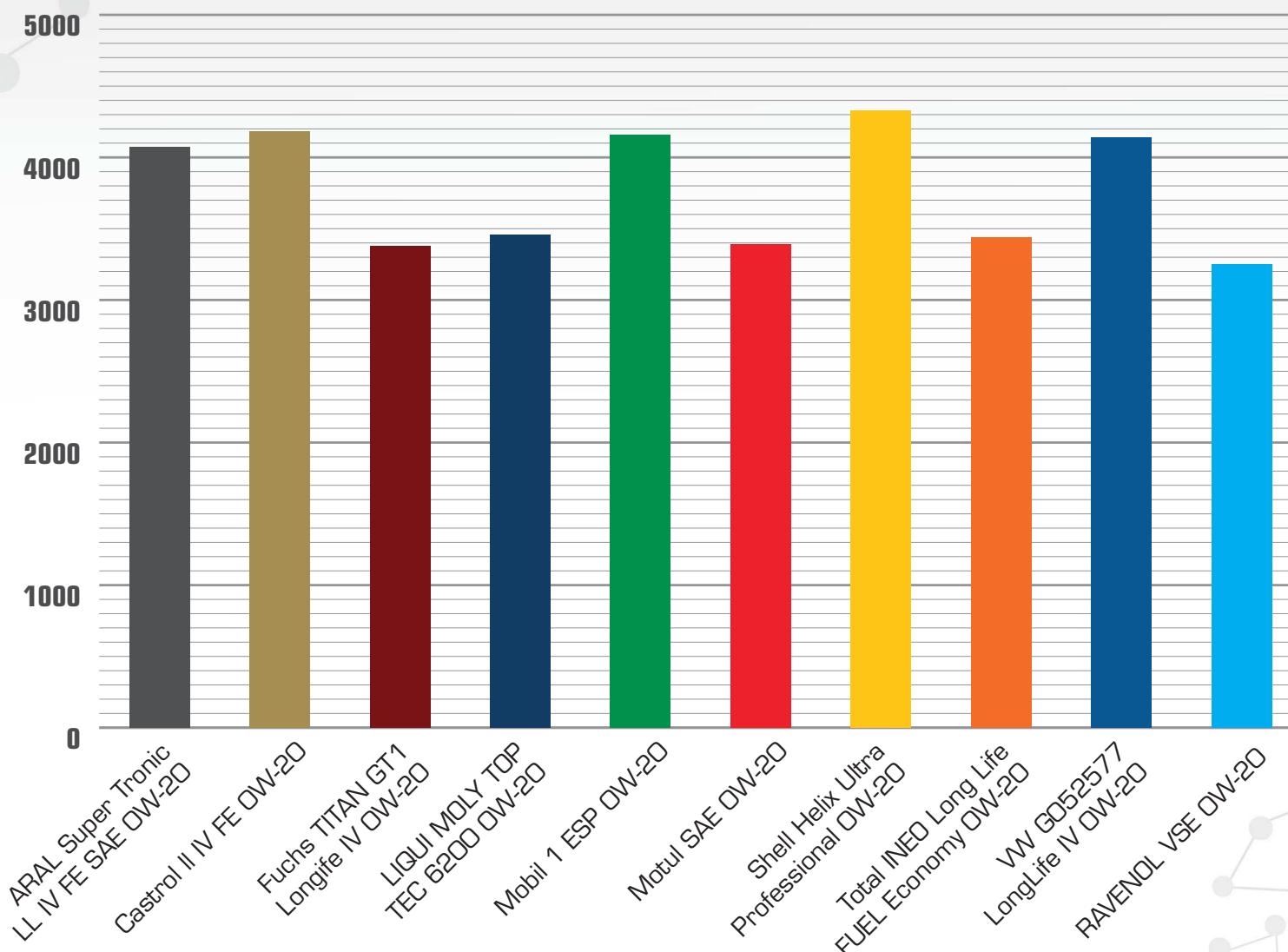
Sulfatasche

DIN 51575:2011-01



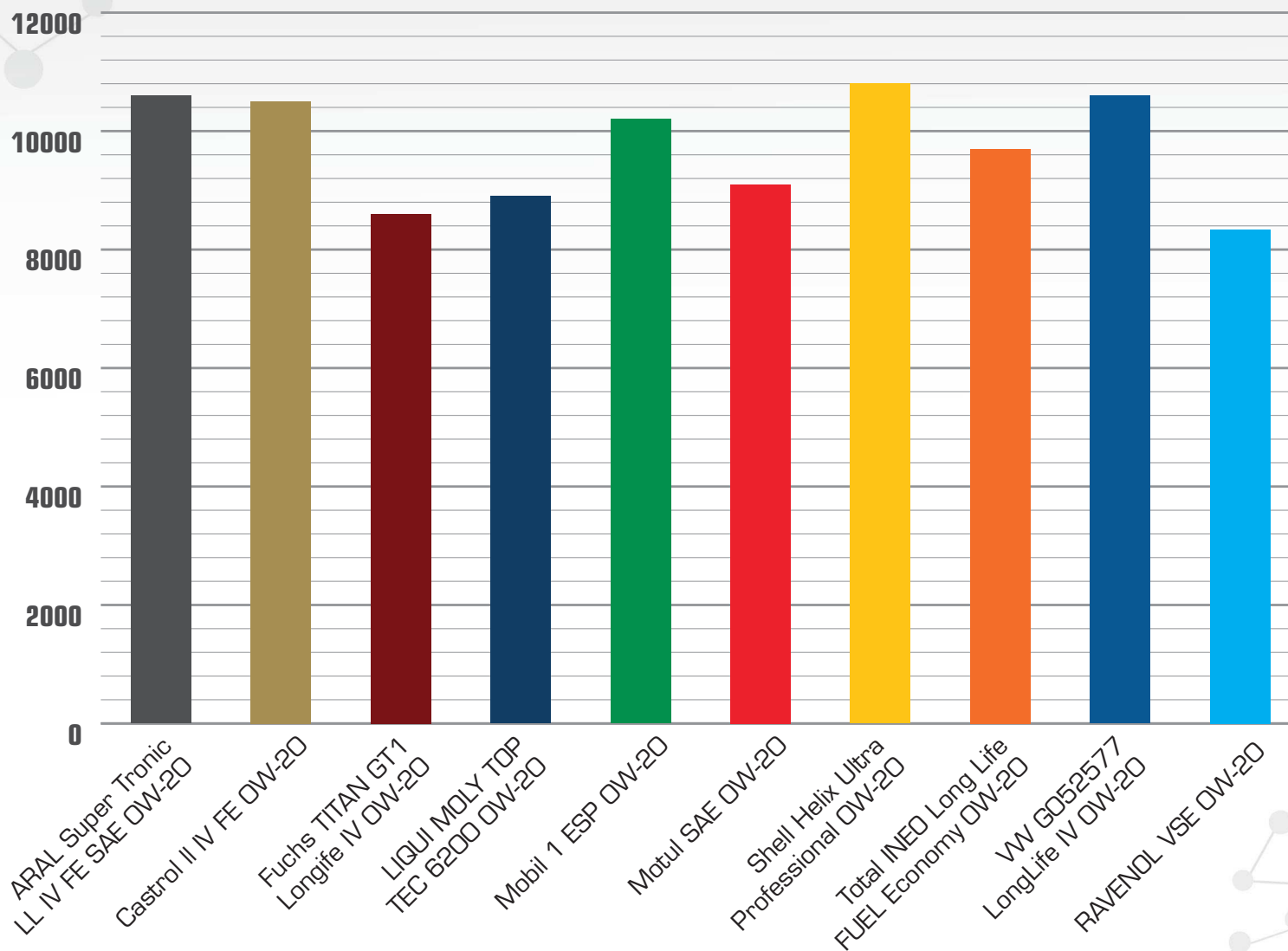
CCS-35°C

ASTM D 5293:2015, mPa·s



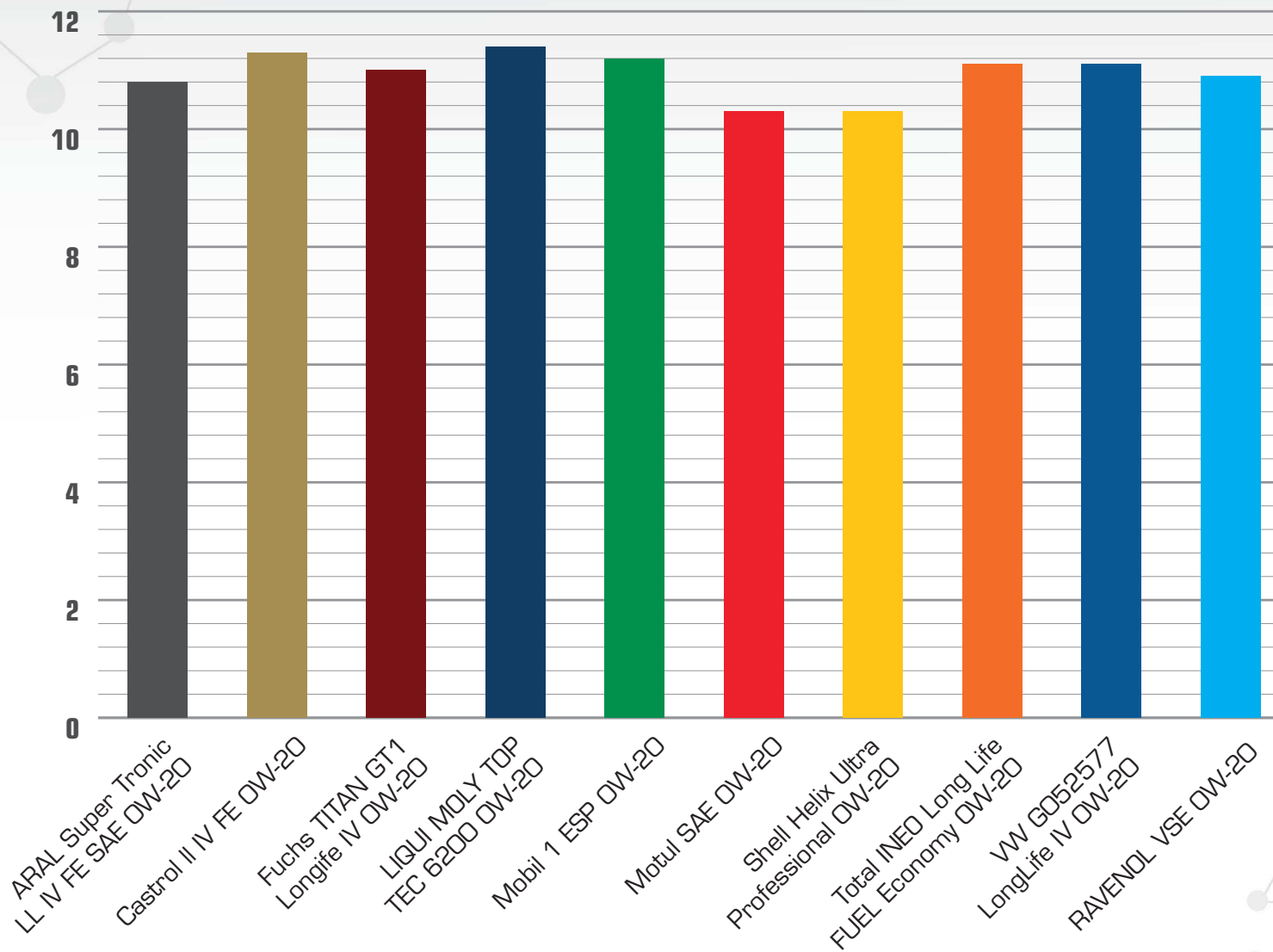
MRV -40°C

ASTM D 4684-14, mPa·s



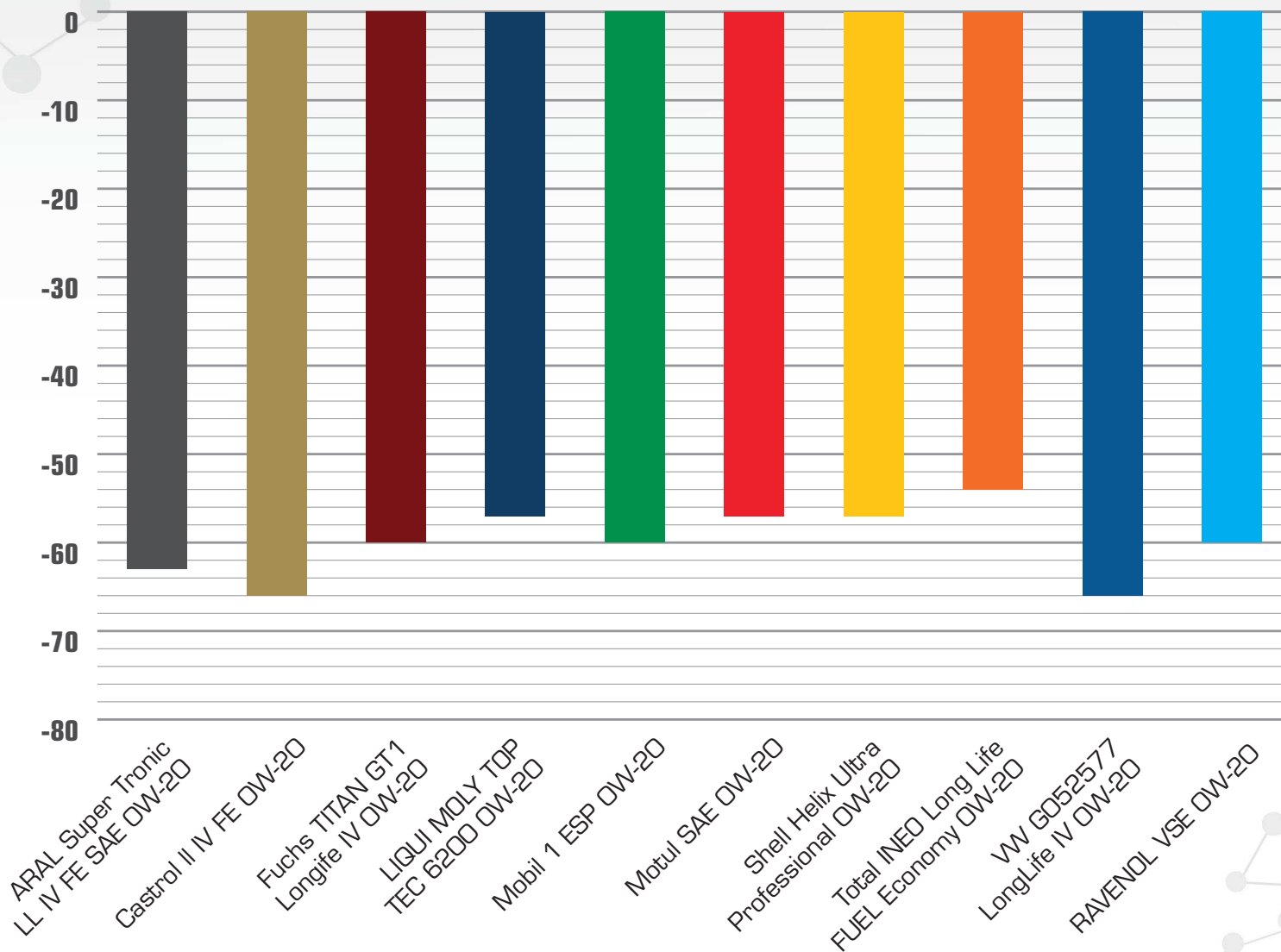
Noack

ASTM D 5800a:2015, %



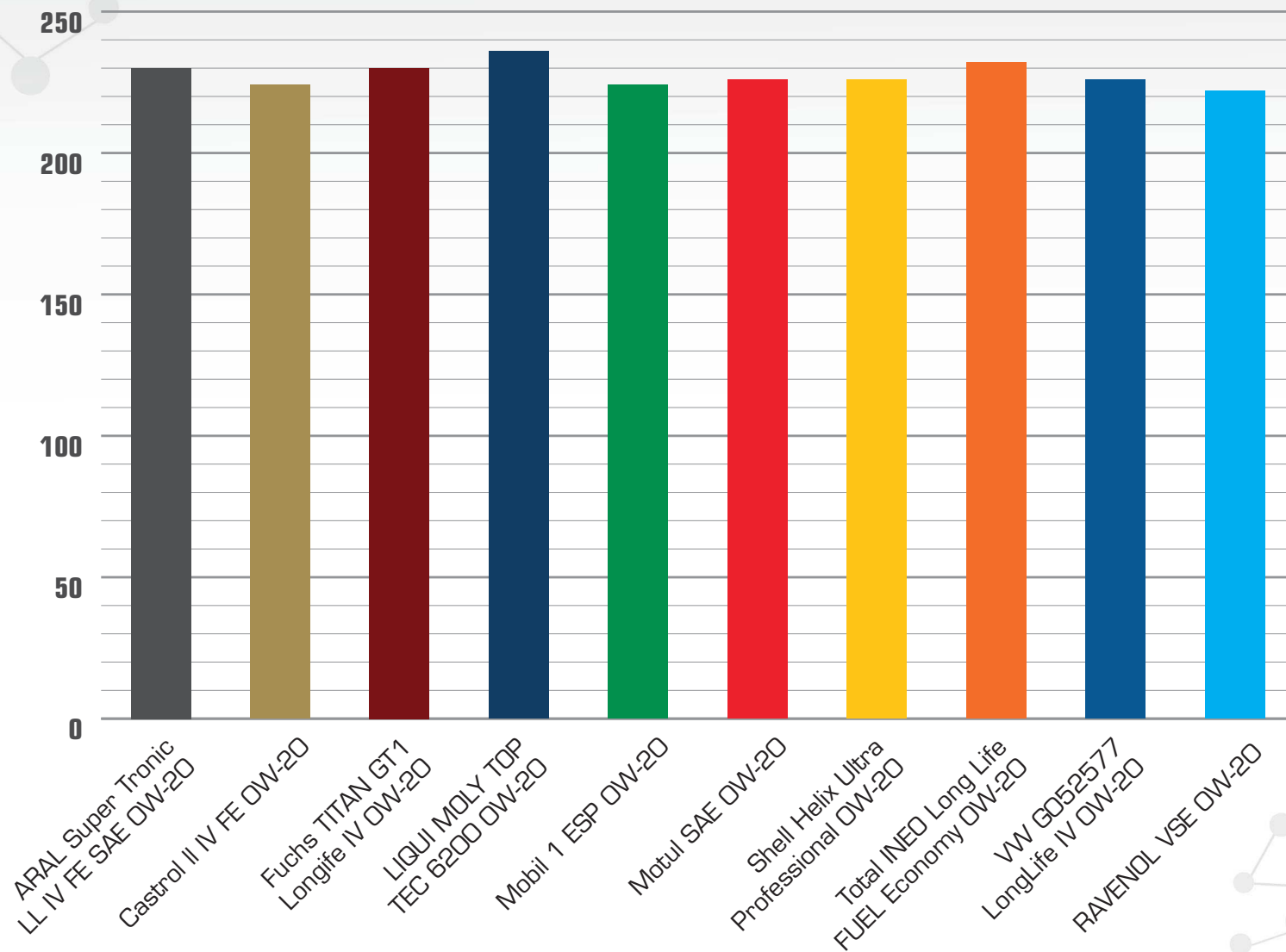
Pour Point

DIN ISO 3016:1982-10, °C



Flammpunkt

DIN EN ISO 2592:2002-09, °C



			ARAL Super Tronic LL IV FE SAE 0W-20	Castrol II IV FE 0W-20	Fuchs TITAN GT1 Longife IV 0W-20	LIQUI MOLY TOP TEC 6200 0W-20	Mobil 1 ESP 0W-20	Motul SAE 0W-20	RAVENOL VSE 0W-20	Shell Helix Ultra Professional 0W-20	Total INEO LL FUEL Economy 0W-20	VW G052577 LongLife IV 0W-20
Charge / Datum			W000263073 12.02.2018	W000265455 18.07.2018	102356786 000 1338 00055	348496 Okt 18	0692001-04799 14.09.2016	412232A1 02.02.2016	19100339 21.03.2019	18/261 794955	10420961 PRD 10.09.2018	W000264140 30.03.2018
Aussehen/Farbe	-		grün	grün	grün	grün	grün	grün	grün	grün	grün	grün
Dichte 15°C <small>DIN EN ISO 12185:1997-11</small>	kg/m³		840,3	840,1	839,3	836,7	842	836,7	835,9	832,7	837,3	839,9
Viskosität 40°C <small>E-DIN 51659-2:2014-08</small>	mm²/s		44,11	44,14	39,72	39,08	39,9	38,84	39,22	39,25	40,16	43,99
Viskosität 100°C <small>E-DIN 51659-2:2014-08</small>	mm²/s	7,8 - 9,3	8,245	8,259	8,138	8,152	7,973	7,945	7,98	8,050	8,147	8,223
Viskositätsindex <small>DIN ISO 2909:2004-08</small>	-		164	165	185	190	177	183	182	184	183	164
CCS-35°C <small>ASTM D 5293:2015</small>	mPa·s	max. 6200	4070	4180	3380	3460	4160	3390	3250	4330	3440	4140
HTHS <small>ASTM D 5481:2013</small>	mPa·s	min. 2,6	2,60	2,68	2,8	2,6	2,74	2,69	2,73	2,32	2,66	2,63
MRV -40°C <small>ASTM D 4684-14</small>	mPa·s		10600	10500	8600	8900	10200	9100	8340	10800	9700	10600
TBN <small>ASTM D 2896:2011</small>	mgKOH/g	max 6	5,9	6,2	7,7	7,8	8,2	8,0	8,3	7,2	7,8	6,4
Pour Point <small>DIN ISO 3016:1982-10</small>	°C		-63	-66	-60	-57	-60	-57	-60	-57	-54	-66
Sulfatasche <small>DIN 51575:2011-01</small>		max. 1,0	0,72	0,74	0,85	0,79	0,77	0,85	0,77	0,74	0,84	0,67
Noack <small>ASTM D 5800a:2015</small>	%	11	10,8	11,3	11	11,4	11,2	10,3	10,9	10,3	11,1	11,1
Flammpunkt <small>DIN EN ISO 2592:2002-09</small>	°C		230	224	230	236	224	226	222	226	232	226
Copper Corrosion Test <small>ASTM D130: 2012</small>												
3h at 150°C		1	1a	1a	1a	1a	4b	1a	1a	1a	1a	2c
Elemente <small>ASTM D 4927:2014</small>												
P	ppm		770	778	838	806	869	816	814	804	810	764
S	%		0,23	0,23	0,19	0,18	0,21	0,18	0,18	0,18	0,18	0,23
Ca	ppm		1770	1840	1940	1870	1700	1910	1860	1860	1880	1780
Zn	ppm		794	823	911	846	949	876	836	851	863	802