

AIR – COOLED ENGINE OIL: ACE[®] 30 & 40

Australian Developed & Made

ACE[®] 30 & 40 are lubricants specially developed for air-cooled engines such as VW (all air – cooled models), Motorcycles (many models), Porsche (to 1973), and many other vehicles with hot-running engines. They are particularly intended for air-cooled cars and motorbikes where the manufacturer's original recommended oil was single-grade SAE 30 or 40, depending on climate.

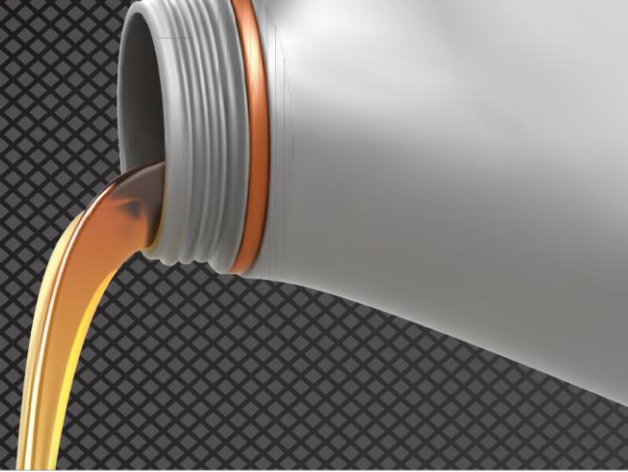
These two viscosity grades cover Australia's generally 'Moderate' to 'Tropical' climate.

ACE[®] 30 & 40 are Heavy Duty (API SJ/CF/CG-4 rated) mineral-based products, and incorporate a special combination of detergents, antioxidants and inhibitors. A special foam suppressant helps to always transfer heat from engine internals effectively.

Ordinary mineral-based multi-grades are made for cool running water-cooled engines, and contain significant amounts of low-viscosity base oils, which don't survive well at higher temperatures. They also contain higher levels of Viscosity Modifiers, which act as thickeners. But these can break down with continued hot running, leaving the thinner base oils to carry the load. That is why **ACE[®]** oils use the minimum amount of a stable Viscosity Modifier. This allows them to use the highest viscosity base oil possible, which minimizes degradation and volatile loss at high temperatures.

Application Guide

- VW: all air-cooled models. **ACE[®] 30** is the standard grade; **ACE[®] 40** is the high viscosity alternative.
- Porsche: all type 356. Type 901. Type 912. Types 914-4/914-6/916. Type 911 to 1973 2.4L.
- Most other cars with air-cooled engines such as Chevrolet Corvair, some Fiats and Citroens.
- Most air and some water-cooled 4-stroke motorbikes: all grades comply with JASO MA.
- Check viscosity grade specified in vehicle handbook, or by your engine builder. If a mono-grade is desired, use the **ACE[®]** grade with that number.
- When changing oil always change the filter also.



PRODUCT DATA SHEET

TYPICAL PROPERTIES

	ACE® 30	ACE® 40
Density @ 15°C kg/L	0.89	0.895
Viscosity grade	20W-40	25W-50
API Category	SJ/CG-4/CF	SJ/CG-4/CF
Base oil type	Mineral	Mineral
Climatic temperature guide	-5°C & above	0°C & above
Friction modified?	No.	No.
Micro-filtered before packing?	Yes	Yes
Kinematic viscosity at 40°C	135cSt	205 cSt
Kinematic viscosity at 100°C	15 cSt	20 cSt
Dynamic viscosity at 150°C	4.5 cP	5.7 cP
Viscosity index	112	109
Phosphorus %wt.	0.10	0.10
Zinc %wt.	0.11	0.11
Total base number	8mg KOH/g	8mg KOH/g
Appearance	Clear amber oil	Clear amber oil

All reasonable care has been taken in the preparation of the advice and information contained herein and is correct at the time of preparation; no liability whatsoever is accepted for any loss or damage as a consequence of the use of such advice and information contained herein. Buyers should always determine the suitability of products for their particular purpose. The information provided is a guide to industry and is not necessarily manufacturing specification which varies from time to time.