



# SYNFORCE

## lubricants



Australian made  
Australian owned

Precision blended, extreme protection  
and performance Hydraulic oils

[www.synforce.com.au](http://www.synforce.com.au)

## Synforce Hydraulic Fluids, AW & HVI

All our AW & HVI Hydraulic fluids are made with clean virgin natural high viscosity index (VI) group 2 base stocks, the natural high viscosity index of the base fluids used means less polymer viscosity modifier (VM) is needed in our HVI and vHVI products to meet specification, polymers will shear more easily than the base fluids.

The viscosity modifier we use in our HVI products has an SSI (shear stability index) of 4, this is at the very top end of the quality scale, having an SSI of 4 means extreme resistance to shear and viscosity loss. This SSI VM is also required in some fluids to be able to meet some OEM requirements on shear stability. The lower the SSI number the better the resistance to shear and viscosity loss.

In all our Zinc based fluids we over treat with anti-wear by at least 30% resulting in significantly better component protection and extended life, to compare the amount of Zinc anti-wear refer to ours and others product data sheets, the more the better to a point.

Synforce Hydraulic fluids also have elevated anti-oxidant and anti-corrosion properties well above industry standard products.

Couple the above with our hot blending by weight process results in an industry best product that offers significant advantages in protection and performance over most if not all other hydraulic fluids available.

Hydraulic fluids if made with virgin base stocks should be delivered water clear as ours is, if the fluid is amber then the fluid is either recycled or made with recycled oil.

### Typical properties:

product	cSt@40 degC	cSt@100 degC	VI	Zinc (ppm)	SSI of VM
AW 22	22	4.5	117	400	none used
AW 32	32	5.6	114	400	none used
AW 46	46	7.2	115	400	none used
AW 68	68	9.3	114	400	none used
AW 100	100	12	110	400	none used
HVI 32	32	6.4	157	400	4
HVI 46	46	8.3	157	400	4
HVI 68	68	11.1	156	400	4
HVI 100	100	15	157	400	4

Synforce AW hydraulics meet or exceed; Eaton Vickers I-286-S, M-2950-S .. DIN 51524 part 2 .. Denison HF-1, HF-2, HF-0 .. Cincinnati Milacron P68, P69, P70 .. US Steel 126, 127 .. Racine Vane Pumps - Variable volume .. Bosch Rexroth RE 0705, RE 902220

Synforce HVI Hydraulics meet or exceed; Cincinnati Milacron P68, P69, P70 , DIN 51524 part 3 , Lee-Norse 100-1 , Jeffrey No 87 .. US Steel 126, 127 , Ford M6C32 , General Motors LH-04-1, LH-06-1, LH-15-1 .. Racine Vane Pumps - Variable Volume .. Commercial Hydraulics (except PMS500 Series) AFNORE48-603 .. Ostoft Harvesters .. Bosch Rexroth RE 0705, RE 902220 .. Eaton Vickers I-286-S, M-2950-S

We also produce a range of Ashless Hydraulic fluids  
*"don't just change your oil ... change your expectations"*

