



## SPEC ENGINE TECHNICAL NEWS BULLETIN

September 3, 2009

The reported lower end problems appear to be related to oiling systems that are either inadequate or restrictive.

- The minimum scavenge filter size should be not less than 100 micron.
- A minimum of #16 (internally supported) oil return line is highly recommended.
- The oil reservoir tank must be a minimum of four (4) gallon capacity. A five (5) gallon capacity oil reservoir tank is highly recommended.
- With the engine block being aluminum, it is highly recommended to warm up the engine properly before making competitive laps. The use of oil heaters and allowing for the block to become heat soaked is highly recommended.
- To insure the best reliability and performance with the Spec Engine hydraulic lifters, it is recommended that the use of not less than ten (10) weight and not more than forty (40) weight synthetic race oil be used.

### COOLING

- The engine cooling fans must flow towards the engine.
- The water level must be higher than top of the upper radiator hose in order for maximum cooling to be achieved. If this is not possible with the radiator, then a radiator surge tank should be used.
- It is highly recommended that the radiator tank size be between three (3) and four (4) inches wide and not more than 15 cooling fins per inch.
- The use of high pressure systems not recommended, but if used, the radiators should be replaced at regular intervals.



TIMING NEEDS TO BE SET AT MAX 29 DEGREES @ 4000 RPM, THIS IS A FAST BURN COMBUSTION CHAMBER AND DOESN'T REQUIRE A LOT OF TIMING

WHEN RUNNING UNLEADED FUEL, TAKE OUT 1 DEGREE OF TIMING (28) AND PUT 3 #'S OF JET IN (89 min.) 90 recommended.

RECOMMENDED MAXIMUM RPM IS 7500 SUSTAINED, AND 7800 AT SHIFT

BLEED WATER PUMP AT SMALL FITTING NEXT TO WATER OUTLET AND BACK FITTINGS ON HEADS

WHEN USING A LOCKED ADVANCE DISTRIBUTOR, WHILE SPINNING THE ENGINE OVER, TURN ON THE IGNITION SWITCH, THIS WILL ELIMINATE KICK-BACKS RESULTING IN RING GEAR AND STARTER DAMAGE

USE GROUND STRAPS FROM ENGINE TO FRAME AND FRAME TO BATTERY

USE equivalent spark plug heat range to Autolite # 472 OR #473

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