

# OILS AIN'T OILS



The flash point of a volatile material is the lowest temperature at which vapours of a fluid will ignite. Measuring a flash point requires an ignition source. At the flash point, the vapour may cease to burn when the ignition source is removed.

MANUFACTURE	PRODUCT	TYPE	FLASH POINT DEGREES CELCIUS	AVERAGE PRICE PER 1 LITRE RRP
Red Line	2 Stroke Racing oil	Synthetic	<b>249</b>	\$50.00
Morgan Fuel	Blue oil	Synthetic	<b>238</b>	\$29.99
Klotz	KL-200	Synthetic	<b>188</b>	\$22.00
Deluxe Products	Power Model 2T-S	Synthetic	<b>121</b>	\$77.00
Penrite	MC-2ST	Synthetic	<b>94</b>	\$32.00
Castrol	1 TTS Racing 2T	Synthetic	<b>73</b>	\$33.00

NOTE: Price quoted on the 1/3/2016 some prices and details may vary.

The Flash Point has been sourced from the products Material Data Sheet supplied by the manufacturers.

## A few words about lubrication in 2 stroke motors.

There is a lot of misconception about 2 stroke oils & lubrication of the engine. Let's start by describing how the engine is lubricated.

First, a suitable oil is mixed with the fuel. This oil must dilute completely within the fuel. However the properties of the oil must remain the same.

Now, when fuel is dispersed in to the intake air stream by the carburettor, it carries oil with it. Oil however does not vaporize as the fuel does when it enters the crankcase. When the fuel vaporizes, the oil drops out as tiny droplets. This oil ends up on all of the parts inside the crankcase. A thin film of oil is established on the inside of the crankcase.

The oil film on the crankcase migrates in the direction of airflow as long as the engine is running. This means that the oil eventually works its way through the intake ports, and in to the combustion chamber.

When the engine fires, the oil **SHOULD NOT BURN**. **“This is where the FLASH POINT RATING of oil is important”**  
**Spark ignition engines can generate enough heat to burn poor quality lubricating oil.**

When the engine fires, the oil continues on its journey - right out the exhaust port. If the oil is of acceptable quality it will still be oil as it leaves the engine. This is the oil you find in the exhaust system. So why is the oil black? It is contaminated with carbon from the fuel burned, just like the oil in a 4 stroke crankcase. A properly lubricated 2 stroke will have some oil all the way to the tailpipe. If it has not burned, but passed clear through the engine it is doing its job.

**In conclusion, if the FLASH POINT is not high enough the oil may burn impacting it's lubricating properties!!**