



Engine Oil and Fuel Filtration : Stinson, Caloola and Davis Grader Hire

Stinson's Case 8930 Tractor

Richard Stinson operates a Case 8930 on their farm "Caloola" at Willow Tree. The tractor was known to use oil especially when pulling a 20 tonne chaser bin at harvest time. He was also having trouble with blocked fuel filters on all of his equipment, so as well as fitting a FMO2 and FMF2 to his tractor he also fitted a JQ340 fuel system to his fuel trailer.

This has eliminated all fuel problems at "Caloola". The oil samples showed that oil contamination was at acceptable levels at 250 and 500 hours. A sample at 800 hours indicated a low TBN and solids (soot) approaching high levels, wear metals were increasing (i.e. iron and copper) but still well under warning levels. Silicon was also increasing.

Upon inspection he found the air cleaner was dirty and in need of servicing as he had just farmed dry red soil in very dusty conditions. The low TBN could also be attributed to Richard changing brands of oil at around 650 hours.

Since fitting the filters the tractor has stopped using oil and the owner says it is performing better. He has set a benchmark of 750 hours on oil changes, up from 250 hours. Using oil analysis has helped set the trends for servicing.



Davis Grader Hire

Davis Grader Hire fitted a FMO3 in early 2000 to their Cat grader. They were changing their oil and OEM elements every 250 hours. The first sample, taken at 500 hours, showed high levels of silicon present. It was decided to leave the oil and continue monitoring. At the next service, 750 hours, the sample indicated that the silicon has returned to acceptable limits.

A sample taken on 31/8/01, shows 1750 hours on the oil and because of the low TBN it will be changed at the next service (2000 hours). There has been an increase in oil life of 875% since fitting Filter Technology Australia's FMO3. Trending using oil analysis has enabled this to be achieved.

