

**Some Oil Samples that Ron Fears (Laundry1)
had done at Blackstone Laboratories.**

Elements in Parts per Million	Yamalube	Castrol Full Synthetic	OMC Ficht	Pennzoil Premium Plus	Quicksilver	Lucas SemiSyn
Aluminum	0	0	0	0	0	0
Chromium	0	0	0	0	0	0
Iron	1	0	1	1	1	1
Copper	0	0	0	0	0	0
Lead	0	0	0	0	0	0
Tin	0	1	0	0	0	0
Molybdenum	730	0	0	0	1	1
Nickel	0	0	0	0	0	0
Manganese	0	0	0	0	0	0
Silver	0	0	0	0	0	0
Titanium	0	0	0	0	0	0
Potassium	0	0	1	1	1	0
Boron	16	0	1	4	12	0
Silicon	6	0	0	0	1	0
Sodium	3	2	2	2	1	1
Calcium	18	0	1	0	1	238
Magnesium	1	0	0	0	1	0
Phosphorous	226	1	0	0	2	0
Zinc	13	3	2	3	20	4
Barium	0	0	0	0	0	0
Flashpoint in Degrees F.	235	390	200	235	170	240
- COMMENTS -						
Yamalube	This oil contained the most additive of the six you sent in, so it wins in that department. As long as the additives are ashless (as we assume they are), then these will not hurt anything. Molybdenum is probably an anti-wear additive, though we can't say for sure. We are sure what the boron, calcium, phosphorous and zinc are for though, they are additives as well. No moisture or insolubles were found.					
Castrol Full Synthetic	We did not find much here in the way of additives either. As stated before, this is a common find, and we don't consider it a problem. As far as these oils go, Yamalube has the most additive, so if that's an important criteria (as we are not sure it is), then we think that this is the best value. There isn't much difference between the others, so I would probably go with whichever one was cheapest price-wise. No moisture or insolubles were found.					
OMC Ficht	This oil did not have much present in the way of additives either. No moisture or insolubles were found.					
Pennzoil Premium Plus	This oil has only traces of additive present. No moisture or insolubles were found.					
Quicksilver	2-cycle oil is generally a 20W oil and that's what we found in all of these samples, so we don't think viscosity is a factor. We don't normally see additive in these oils, though some of these do have some present. Additive probably doesn't hurt anything, though since the oil gets burned, there may be a possibility of the additive leaving deposits in the combustion chamber, unless they are ashless. Only a little boron and zinc showed up					

	here. No moisture or insolubles (solid material) were found. We can't tell the difference between synthetic or non-synthetic oil.
Lucas SemiSyn	Calcium was the only significant find in this sample. No moisture or insolubles were found. This was the only oil without a blue/green dye.
<p style="text-align: center;"> Sample Date: 06/16/04 Blackstone Laboratories 4929 S. Lafayette Street Fort Wayne, IN 46806 </p>	