

# Kirjatietao polttoainelaimentumasta

Polttoainelaimentuma (samoin vesi) ohentaa öljyä ja kuluttaa moottoria, seurauksena saattaa olla moottoririkko

**Kaaviossa:**

Erityisesti "bio-diesel" haihtuu huonosti pois öljystä, kertyy ja huonontaa voitelua.

The company selected a B5 (5 percent biodiesel) and a B20 (20 percent biodiesel) fuel for its tests, with an SAE 15W-40 API CI-4/SL lubricant. Using gas chromatography and infrared, said Viscardi, "we found dilution with B20 was much higher than with B5."

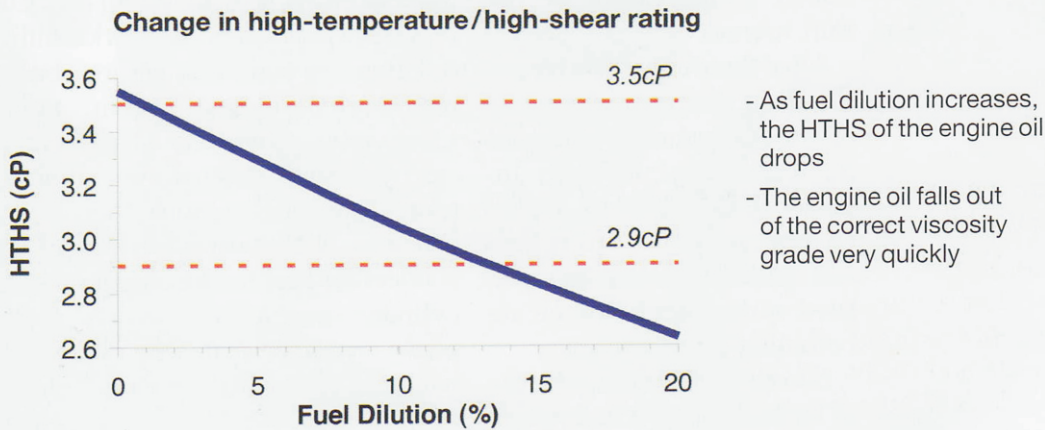
Results of Ipiringa Biodiesel Dilution Tests				
Vehicle One: B20 Dilution Results				
Sample	Km oil	% diesel	% biodiesel	% total dilution
Intermediate	11,898	1.0	2.96	3.96
1 <sup>st</sup> change	35,000	0.8	5.21	6.01
2 <sup>nd</sup> change	35,600	2.0	7.63	9.63
Intermediate	23,120	1.8	5.11	6.91
3 <sup>rd</sup> change	35,000	1.6	6.19	7.79
Vehicle Two: B5 Dilution Results				
Sample	Km oil	% diesel	% biodiesel	% total dilution
Intermediate	12,493	0.5	1.64	2.14
1 <sup>st</sup> change	35,000	1.5	1.11	2.61
2 <sup>nd</sup> change	37,483	0.1	0.87	0.97

## DETRIMENTS OF BIODIESEL

### ENGINE OIL PERFORMANCE COMPROMISED BY FUEL DILUTION

Sample oil: 5W-30 passenger car engine oil meeting specifications that require high-temperature/high-shear of at least 3.5 cP.

### FUEL DILUTION CAUSES OIL TO FALL OUT OF VISCOSITY GRADE.



### DILUTION BY ULTRA-LOW-SULFUR DIESEL HAS LITTLE IMPACT, BUT DILUTION BY BIODIESEL STIMULATES OXIDATIVE DEGRADATION.

