					WEST COAST COLLABORATIVE Public-private partnership to reduce diesel emissions
Bridging the Biodiesel Gap					Procedure #
Sampling Procedure					


How do we test fuel when it arrives and before we accept it? Field testing of biodiesel can be done using several methods. We cannot guarantee to what degree the methods are effective for your needs.

- pHlip Test™
<http://www.phliptest.com/>
- Fleet Biodiesel
http://www.fleetbiodiesel.com/biodiesel_testing_and_supplies/biodiesel_test_kits.html
- B100 Supply:
http://www.b100supply.com/category_s/70.htm

Sample INSTRUCTIONS:

1. Complete checklist to unload a tanker.
2. Open internal valve of tanker.
3. Hold sample jar under fitting.
Note: if 2 compartments the composite sample is ½ from each, if 3 compartments then 1/3 from each and so on.
4. Open external valve of tanker carefully.
5. Catch sample into pre-labeled jar.
Note: Make sure all excess dripping goes into the drip bucket.
6. When jar is full, close valves.
7. Close sample jar securely.
8. Wipe off excess material from jar.
Note: Make sure to discard rags used into proper satellite container.
9. Remove fitting from tanker and cap valve.
10. Wipe off excess material from fitting.
Note: Make sure to discard rags used into proper satellite container.
11. If sampling multiple compartments, make a composite sample from step 2
12. Take/send the sample jar to the laboratory for analysis.
13. Perform the following analyses on the samples:
 - Free and Total Glycerin
 - Karl Fisher moisture
 - Flash point

 - Oxidative Stability
 - Acid Number
 - Cold Soak Filterability

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14. The biodiesel will be accepted if the samples meets the following specifications:

Property	Specification	Test Method
Free Glycerin (mass %)	< 0.020%	ASTM D 6584
Total Glycerin (mass %)	< 0.240%	ASTM D 6584
Karl Fisher moisture (% vol)	< .050	ASTM D 2709
Flash Point (closed cup)	93 min	D 93
Acid Number (mg KOH/g)	.50	D 664
Oxidation Stability (hour)	3 minimum	EN 14112
Cold Soak Filterability	360 max	D 664

*See Tank Truck and Rail Car Checklists