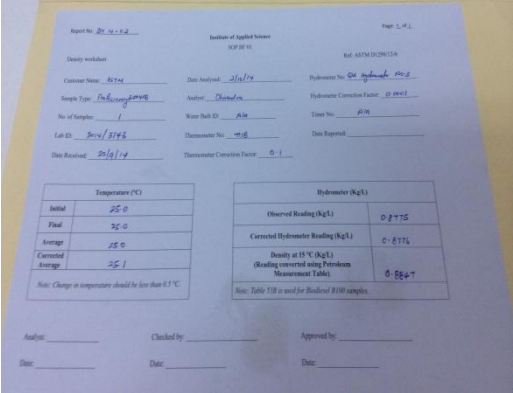


Properties	ASTM/EN Code	Equipment used	Accredited	Comments
Density	D1298/12b	Hydrometer, & thermometer	Yes	Hydrometers have been purchased and Test method has been accredited

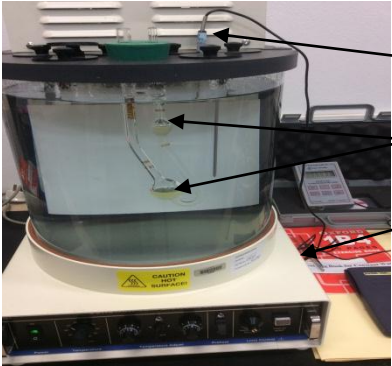


1(A) - Hydrometer



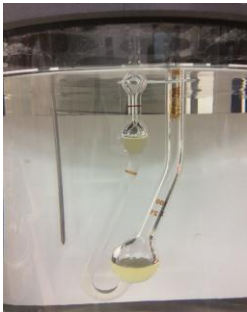
1(B) – Data Recording Template

Kinematic Viscosity	D445/12	Viscometers (size: 100, 75, 50), Constant Water Bath, Digital Thermometer, Stopwatch	Yes	Test method has been accredited
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2(A) - Kinematic Viscosity Setup

Digital -Thermometer
Viscometer
Water Bath



2 (B) - Viscometer

Free &Total Glycerin	D6584/13	GC-FID with Auto sampler, Column: Elite Biodiesel w/guard, Analytical Balance	Yes	All machines have been installed and Test method has been accredited
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3(A) – Free& Total Glycerin Test Set-Up

Metal	BSEN 14538	ICP-OES	Yes	All machines have been installed and Test methods have been accredited
Phosphorus	D4951		Yes	

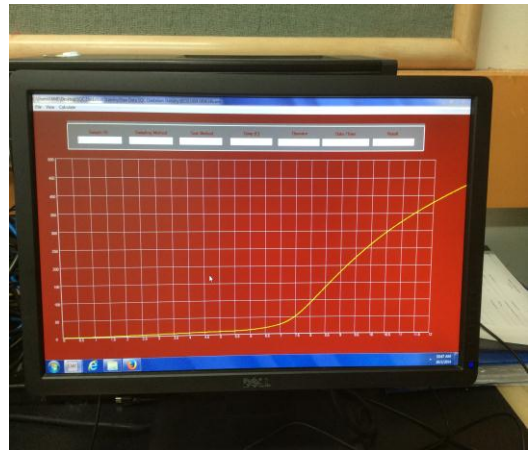


4(A) - Metal & Phosphorous Equipment Set-up

Oxidation Stability	EN14112/2003	LAWLER Fame	No	Machine has been installed and undergoing Method Validation.
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5(A) – Oxidation Stability Setup



5(B) – Oxidation Stability Curve

Distillation Temperature	D1160/06	Manual Distillation apparatus complete with all glassware, vacuum system and water bath	No	All machines installed and undergoing method Validation
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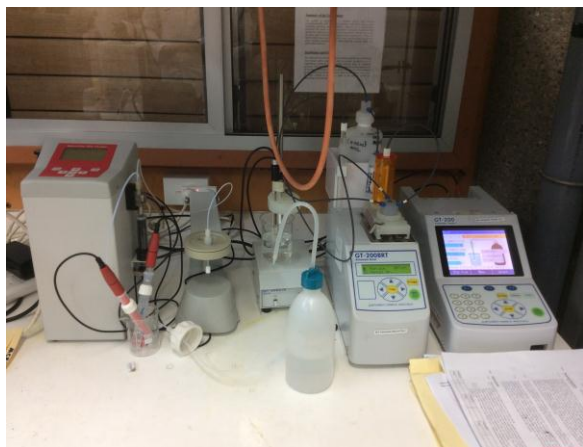
6(A) – Carbon Residue Tester

Flash Point	D93/10a	Automated Canon Pensky-Martens Closed Cup Tester, Barometer	No	All machines installed and undergoing method Validation
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7(A) – Automated Canon Pensky-Martens Closed Cup Tester

Total Acid Number	D664/11	Aquamax TAN Titrator, GT200 automatic Titrator, Analytical Balance	No	All machines installed and undergoing method Validation
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8(A) – Total Acid No (Titration Method)

Water & Sediments	D2709/96	Centrifuge	No	All machines installed and undergoing method Validation
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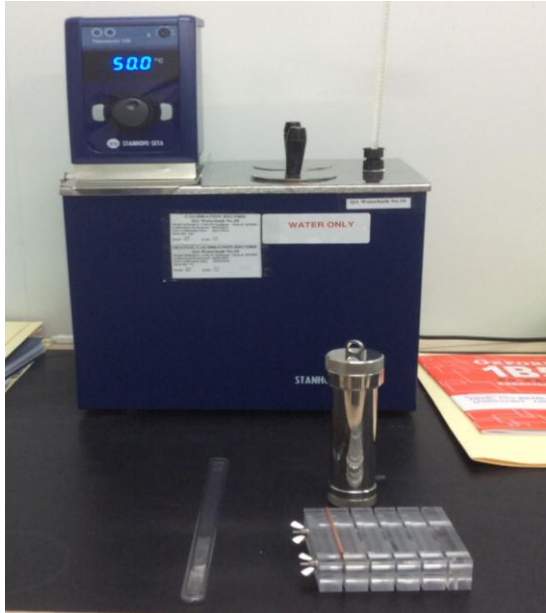
9(A) – Centrifuge Used in Water & Sediments Test Method

Carbon Residue	D4530/11	Micro Carbon Residue Tester, Analytical Balance	No	Undergoing Method Validation.
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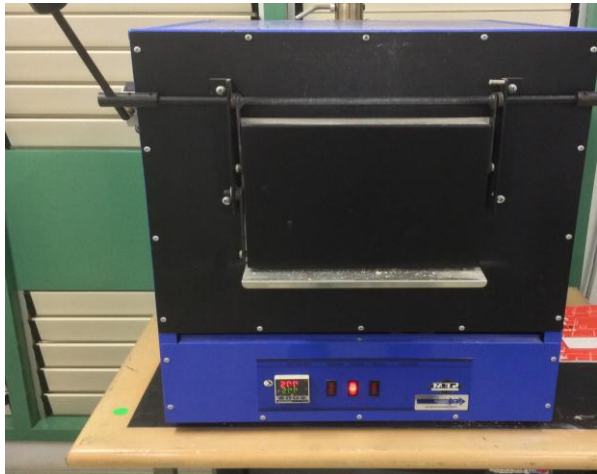
10 (A) – Carbon Residue Testers

Copper Corrosion	D130/12	Seta- Stanhope copper corrosion Setup	No	Undergoing Method Validation.
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11 (A) – Seta- Stanhope copper corrosion Setup

Sulphated Ash	D874/07	Electric Muffle furnace, fume hood, balance, Bunsen burner	No	Undergoing Method Validation. Biofuel Lab currently using IAS Fume hood during testing
Ash	D482/13			



12 (A) – Electric Muffle furnaces,

Ester Content	EN14103	Capillary column, GC-FID with Auto sampler	No	GC-FID not in operation
Water Content	EN12937/2000	Automatic Coulometric Karl Fisher Titrator, Analytical Balance, Oven, Thermometer	No	Undergoing Method Validation.



13(A) - Automatic Coulometric Karl Fisher Titrator.

Total Contamination	EN12662	Vacuum Source, Water bath, Oven, Filtration Apparatus	No	Undergoing Method Validation
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14(A) – Total Contamination Set-up