United States Testing Company, Inc.

Tulsa Division

1341 NO. 108th EAST AVENUE TULSA, OKLAHOMA 74116
TELEPHONE: AREA CODE 918-437-8333

REPORT OF TEST

CLIENT: Emissions Technology Inc.
P.O. Box 471916
Tulsa, OK 74147-1916

Attn: Alex Collin

NUMBER 91-0047
3/4/91

SUBJECT:

Testing of diesel fuel samples for vapor pressure by the Reid mehtod.

SAMPLE IDENTIFICATION

Two jars of diesel fuel marked "Treated Diesel 2-20-91" and "Untreated Diesel 2/20/91".

RESULTS

	Treated	Untreated
Vapor Pressure, psig	1.0	0.6

The Reid vapor pressure is a measurement of the stabilized pressure exerted by a volume of liquid fuel at 100°F. The test is an indirect measurement of combustion characteristics. When more liquid volatilizes into the pressure chamber the vapor pressure increases. Higher fuel volatility indicates hotter burning characteristics. Therefore, higher vapor pressure indicates a hotter, consequently cleaner, burning fuel.

March 17, 1992

SIGNED FOR THE COMPANY
C. Richard Finley
Mgr/Laboratory Services

United States Testing Company, Inc.

Tulsa Division

1341 NO. 106th EAST AVENUE TULSA, OKLAHOMA 74116
TELEPHONE: AREA CODE 918-437-8333

REPORT OF TEST

NUMBER
91-0073
3/22/91

CLIENT: Emissions Technology Inc.
P. O. Box 471916
Tulsa, OK 74147-1916

Attn: Alex Collin

SUBJECT: Testing of unleaded gasoline for Reid Vapor Pressure.

SAMPLE IDENTIFICATION

Two samples of regular unleaded gasoline, one untreated, one treated with Ecolizer.

TEST RESULTS

Untreated Sample	7.6 lbs.
Treated W/Ecolizer	8.4 lbs.

The Reid vapor pressure is a measurement of the stablized pressure exerted by a volume of liquid fuel at 100°F. The test is an indirect measurement of combustion characteristics. When more liquid volatilizes into the pressure chamber the vapor pressure increases. Higher fuel volatility indicates hotter burning characteristics. Therefore, higher vapor pressure indicates a hotter, consequently cleaner, burning fuel.

NOTARY PUBLIC

notary
Dean Laney
Exp. March 17, 92

SIGNED FOR THE COMPANY
C. Richard Finley Manager
Laboratory Services

SGS U.S. Testing Company Inc.

1341 North 100th East Avenue • Tulsa, OK 74116 • Tel: 918-437-8333 • Fax: 918-437-8467

CLIENT: Emissions Technology Inc.
P.O. Box 471916
Tulsa, OK 74147-1916

Attn: Clark Daywalt

Test Report No:	162482	Date:	November 2, 2001

SUBJECT: Pressure Tests.

REFERENCE: Letter.

SAMPLE ID: Two (2) samples identified as "ECO Units" were received from the client on 10/29/01. The samples received were ¼" NPT by 8" in length. The samples were received in good condition.

PROCEDURE: The samples were evaluated by gradually applying a 10,000 psi hydrostatic pressure for 1 minute or until failure. No revisions to this report will be allowed after 90 days of the report date.

RESULTS: Sample: ¼" NPT by 8" length
Both samples held 10,000 psi for one minute without failure.

TEST DATE: 11/1/01.

SIGNED FOR AND ON BEHALF OF SGS U.S. TESTING COMPANY INC.

Jeff Simmons
Dept. Manager/Product Evaluation

Dale E. Holloway
Tulsa Branch Director

SGS U.S. Testing Company Inc.
1341 North 108th East Avenue
Tulsa, OK 74116
Tel: 918-437-8333
Fax: 918-437-8487

REPORT OF TEST

CLIENT: Emissions Technology, Inc.
P.O. Box 471916
Tulsa, OK 74174

Attn: Clark Daywalt

SUBJECT: Efficiency testing of ECO Systems by use of a methane source.

REFERENCE: Verbal 5/2/97.

SAMPLE ID: Client refers to the sample as "ECO System, Model ECO-2".

PROCEDURE: The testing procedure used a flow meter, monitoring methane flow, to measure the temperature of a gas brooder. With a thermal couple located in the brooder, the temperature of the flame was evaluated in comparison to methane flow. Tests were recorded with and without the sample ECO System in line with the brooder.

RESULTS: The results are on the following pages.

TEST DATE: 5/06/97.

Eric Hundley, Engineer

bk

Signed for the Company
Dale E. Holloway
Tulsa Branch Director

REPORT OF TEST

Client: Emissions Technology, Inc.

RESULTS:

Brooder Temperature Test Standard Installation

Sample Number	Measurement (SCFH air)	Temperature (°C)	Flow Rate (ft^3/min)	Flow Rate (BTU/hr)
1	6.0	900	0.134	8840
2	10.0	1050	0.224	14800
3	14.0	1110	0.313	20600
4	18.0	1145	0.403	26600

Brooder Temperature Test With ECO System

Sample Number	Measurement (SCFH air)	Temperature (°C)	Flow Rate (ft^3/min)	Flow Rate (BTU/hr)
1	6.0	925	0.134	8840
2	10.0	1060	0.224	14800
3	14.0	1135	0.313	20600
4	18.0	1160	0.403	26600

Client: Emissions Technology, Inc.

REPORT OF TEST

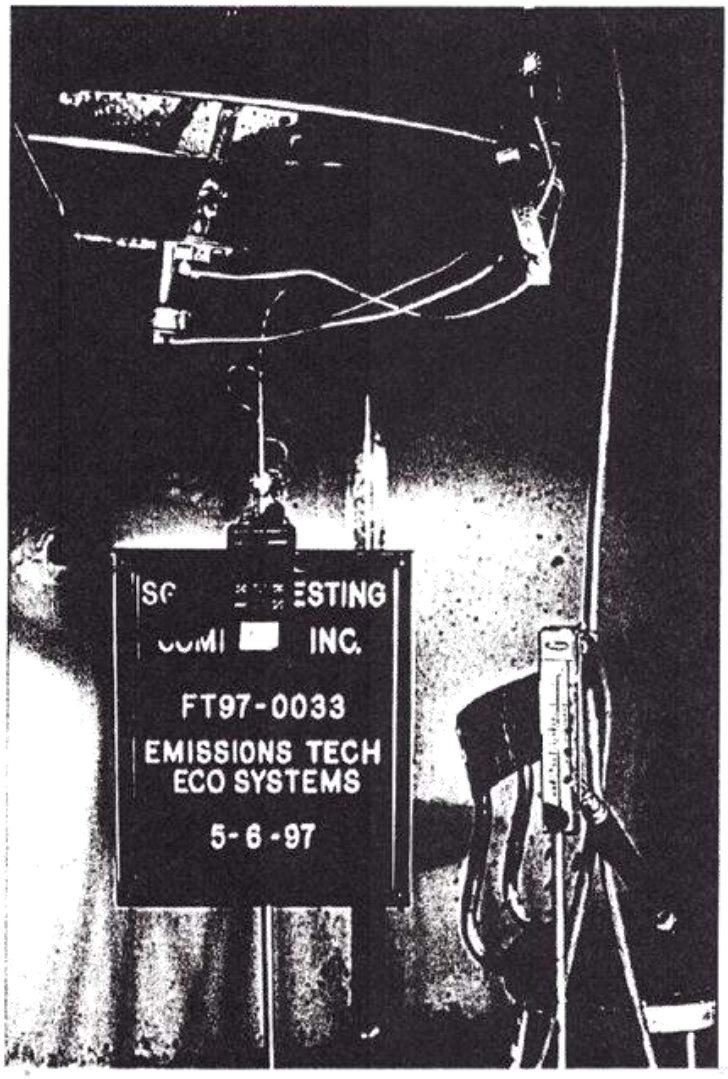
CONCLUSION:

Three temperature points were evaluated for flow differences made with the ECO System and without. These points are evaluated in terms of flow difference and percent efficiency difference.

EVALUATED TEMPERATURE POINTS

Sample	Temperature (^{0}C)	Flow Difference (ft^3/min / BTU/hr)	Efficiency Difference (%)
1	925	.0150 / 990	11.2
2	1110	.0298 / 1967	9.6
3	1150	.0530 / 3490	12.7
		AVERAGE - 2150 BTU/hr	11.2 %

REPORT OF TEST



Standard Brooder with ECO System Installed

REPORT OF TEST

Standard Brooder without ECO Set-up

****END OF REPORT****

REPORT OF TEST

SGS U.S. Testing Company Inc.
1341 North 108th East Avenue
Tulsa, OK 74116
Tel: 918-437-8333
Fax: 918-437-8487

CLIENT: Emissions Technology, Inc.
P.O. Box 471916
Tulsa, OK 74174

Attn: Clark Daywalt

SUBJECT: Efficiency testing of ECO Systems by use of a propane source.

REFERENCE: Verbal 4/15/97.

SAMPLE ID: Client refers to the sample as "ECO System, Model ECO-2".

PROCEDURE: The testing procedure used a flow meter, monitoring propane flow, to measure the temperature of a gas brooder. With a thermal couple located in the brooder, the temperature of the flame was evaluated in comparison to propane flow. Tests were recorded with and without the sample ECO System in line with the brooder.

RESULTS: The results are on the following pages.

TEST DATE: 4/17/97.

Signed for the Company

Eric Hundley, Engineer

Dale E. Holloway
Tulsa Branch Director

bk

REPORT OF TEST

Client: Emissions Technology, Inc.

RESULTS:

Brooder Temperature Test Standard Installation

Sample Number	Measurement (mm)	Temperature (°C)	Flow Rate (ft^3/min)	Flow Rate (BTU/hr)
1	5	1049	0.0435	6495
2	10	1095	0.0869	12970
3	15	1120	0.1300	19400
4	20	1142	0.1730	25825
5	24.5	1150	0.2097	31310

Brooder Temperature Test With ECO System

Sample Number	Measurement (mm)	Temperature (°C)	Flow Rate (ft^3/min)	Flow Rate (BTU/hr)	
1	5	1065	0.0435	6495	
2	10	1109	0.0869	12970	
3	15	1140	0.1300	19400	
4	20	1165	0.1730	25825	
5	24.5	1191	0.2097	31310	(Extrapolated)

Client: Emissions Technology, Inc.

REPORT OF TEST

CONCLUSION:

Three temperature points were evaluated for flow differences made with the ECO System and without. These points are evaluated in terms of flow difference and percent efficiency difference.

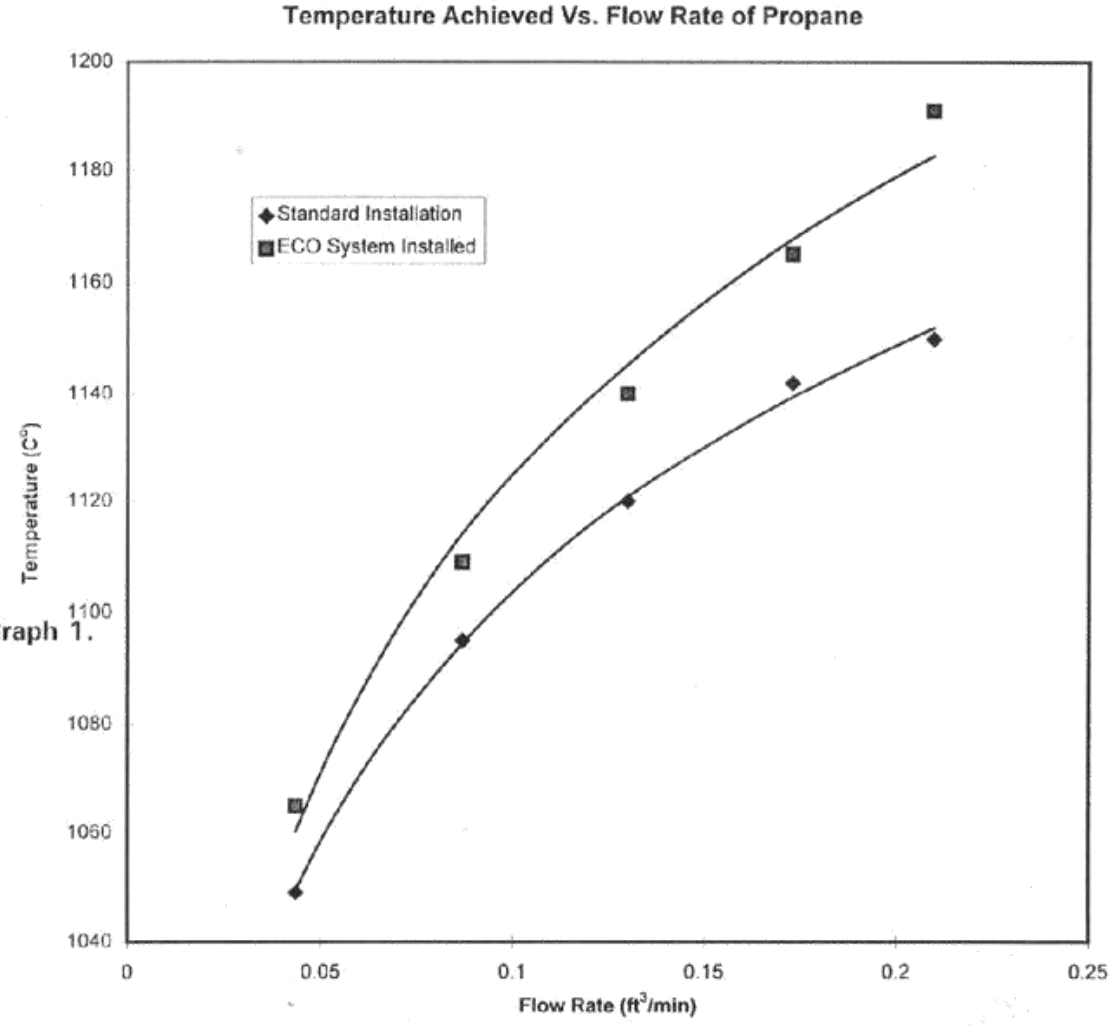
EVALUATED TEMPERATURE POINTS

Sample	Temperature (°C)	Flow Difference (ft^3/min / BTU/hr)	Efficiency Difference (%)
1	1065	.0151 / 2253	25.8
2	1095	.0138 / 2060	15.9
3	1125	.0306 / 4568	17.7
		AVERAGE - 2960 BTU/hr	**19.8%**

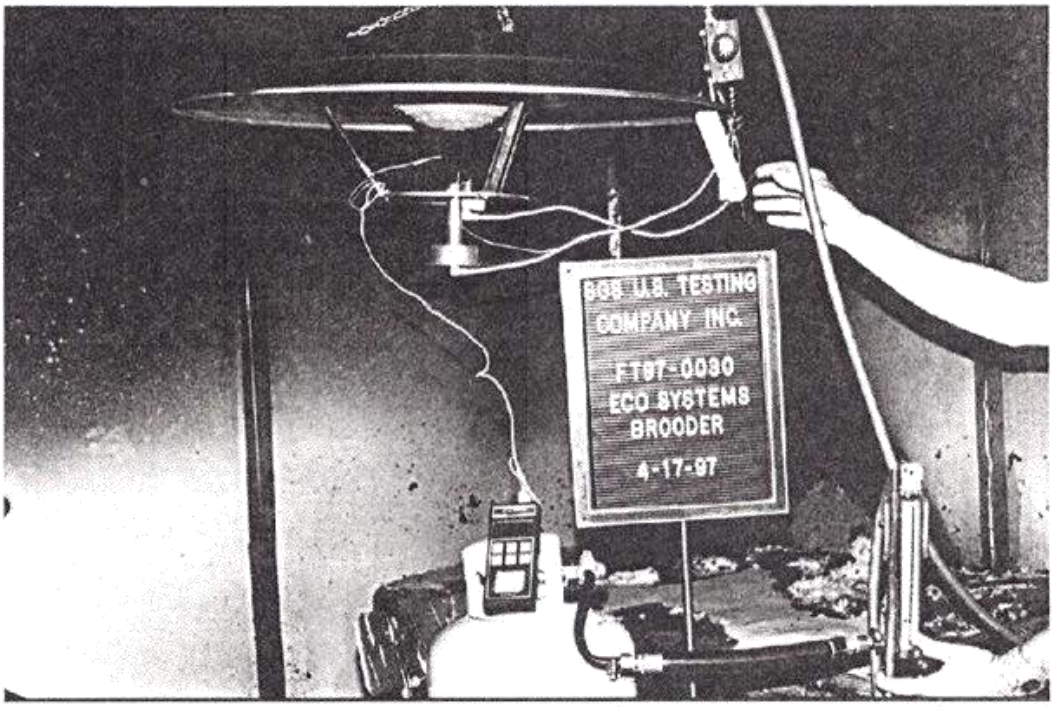
****END OF REPORT****

REPORT OF TEST

Graph 1.



REPORT OF TEST



Systems Brooder with ECO System Installed

REPORT OF TEST

Standard Brooder without Set-up