



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 method.

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.

Worty
Dean Rany
March 19, 1992

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Laboratories in New York • Chicago • Los Angeles • Houston • Tulsa • Memphis • Reading • Richland

SIGNED FOR THE COMPANY

C. Richard Finley
C. Richard Finley
Mgr/Laboratory Services

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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

NUMBER
91-0073
3/22/91

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 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.



notary
Richard Finley
Exp. March 17, 92

SIGNED FOR THE COMPANY
Richard Finley
C. Richard Finley, Manager
Laboratory Services

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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 471918
Tulsa, OK 74147-1918

Attn: Clark Daywalt

Test Report No:	162482	Date:	November 2, 2001
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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 1/4" 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: 1/4" 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.

Clark Simmons
Dept. Manager/Product Evaluation

Dale E. Holloway
Tulsa Branch Director

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SGS U.S. Testing Company Inc.

1341 North 108th East Avenue
Tulsa, OK 74116
Tel: 918-437-8333
Fax: 918-437-8487

Report No.: FT97-0033
Date: 6/2/97
Page 1 of 5

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.

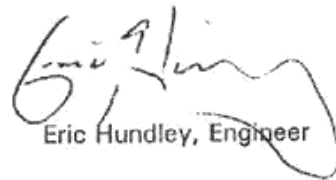
REFERENCE: Verbal 5/2/97.

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

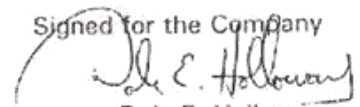
PROCEDURE: The testing procedure used a flow meter, monitoring methane flow, to measure the temperature of a gas brooder. With a thermal couple located in the brooder, the temperature of the flame was evaluated in comparison to methane flow. Tests were recorded with and without the sample ECO System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

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Client: Emissions Technology, Inc.

Date: 6/2/97

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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

REPORT OF TEST

Client: Emissions Technology, Inc.

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

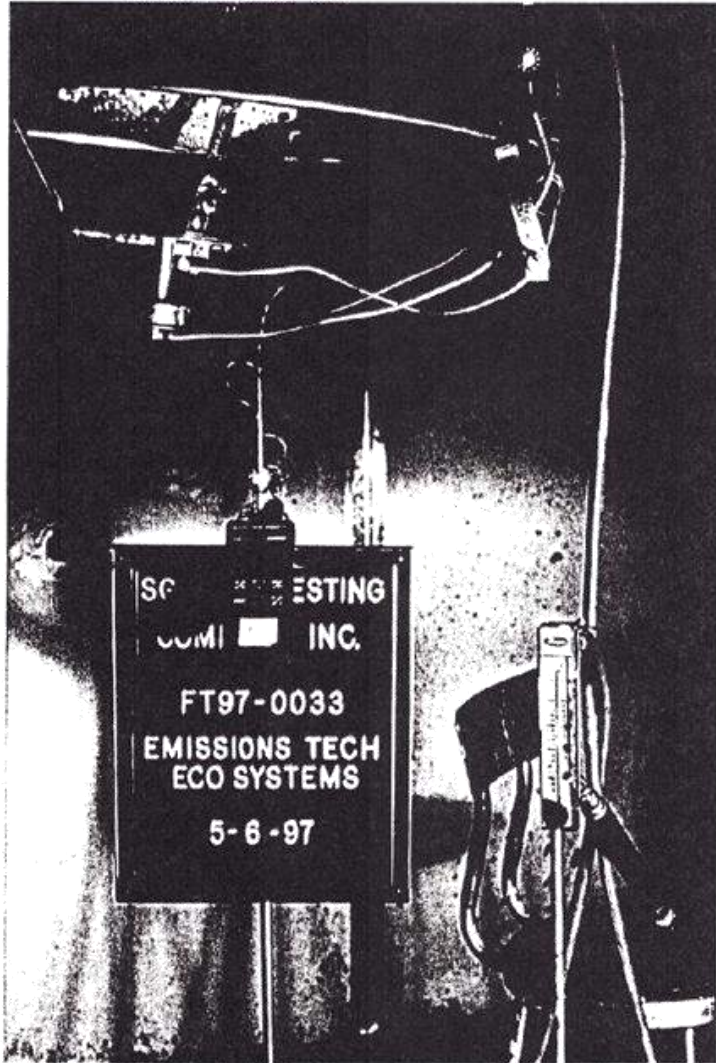
Sample	Temperature (°C)	Flow Difference (ft ³ /min / BTU/hr)	Efficiency Difference (%)
1	925	.0150 / 990	11.2
2	1110	.0298 / 1967	9.6
3	1150	.0530 / 3490	12.7
AVERAGE - 2150 BTU/hr			11.2 %

REPORT OF TEST

Client: Emissions Technology, Inc.

Report No.: FT97-0033
Date: 6/2/97
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REPORT OF TEST



Standard Brooder with ECO System Installed

Client: Emissions Technology, Inc.

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

Report No.: FT97-0030
Date: 4/22/97
Page 1 of 6

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.



Eric Hundley, Engineer

bk

Signed for the Company

Dale E. Holloway
Tulsa Branch Director

Member of the SGS Group

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Client: Emissions Technology, Inc.

Report No.: FT97-0030

Date: 4/22/97

Page 2 of 6

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)

REPORT OF TEST

Client: Emissions Technology, Inc.

Report No.: FT97-0030

Date: 4/22/97

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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.

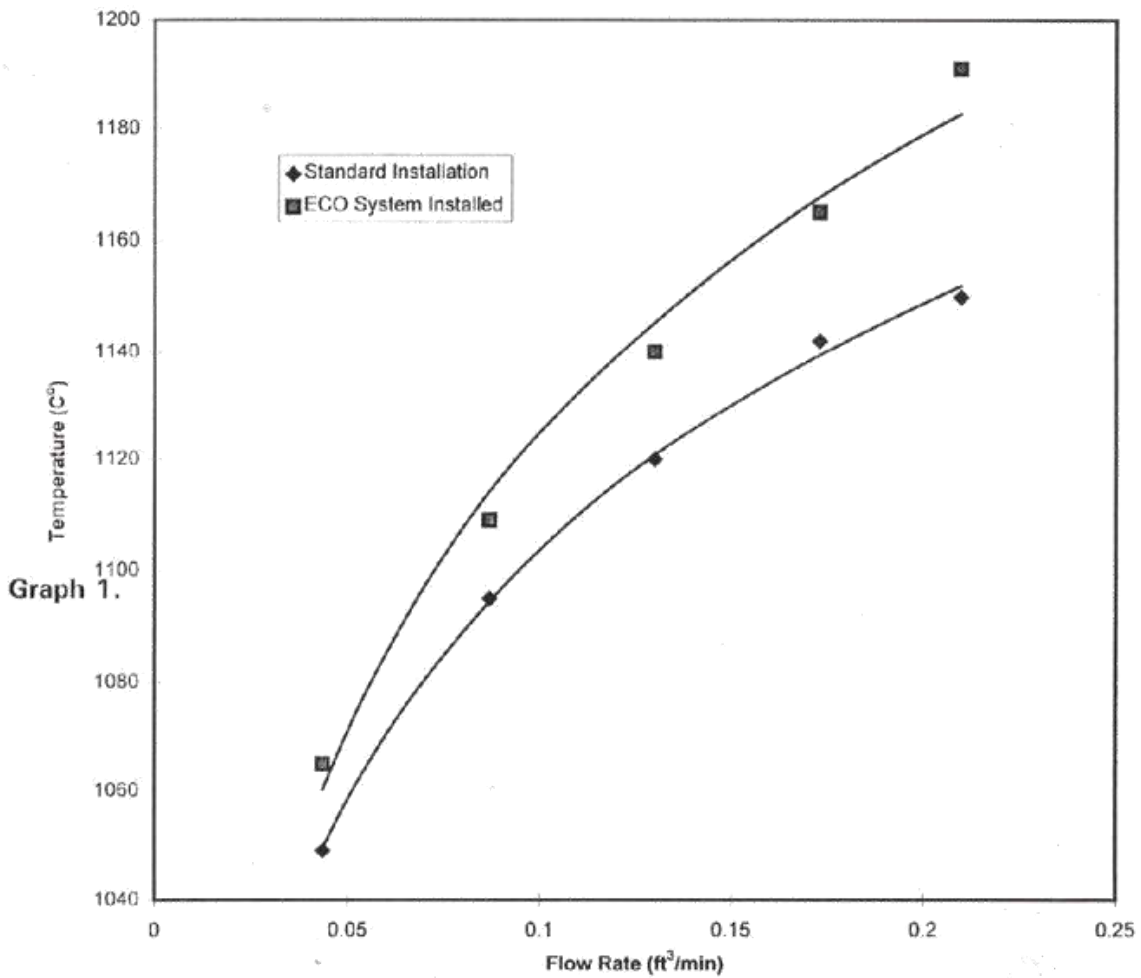
EVALUATED TEMPERATURE POINTS

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

Temperature Achieved Vs. Flow Rate of Propane



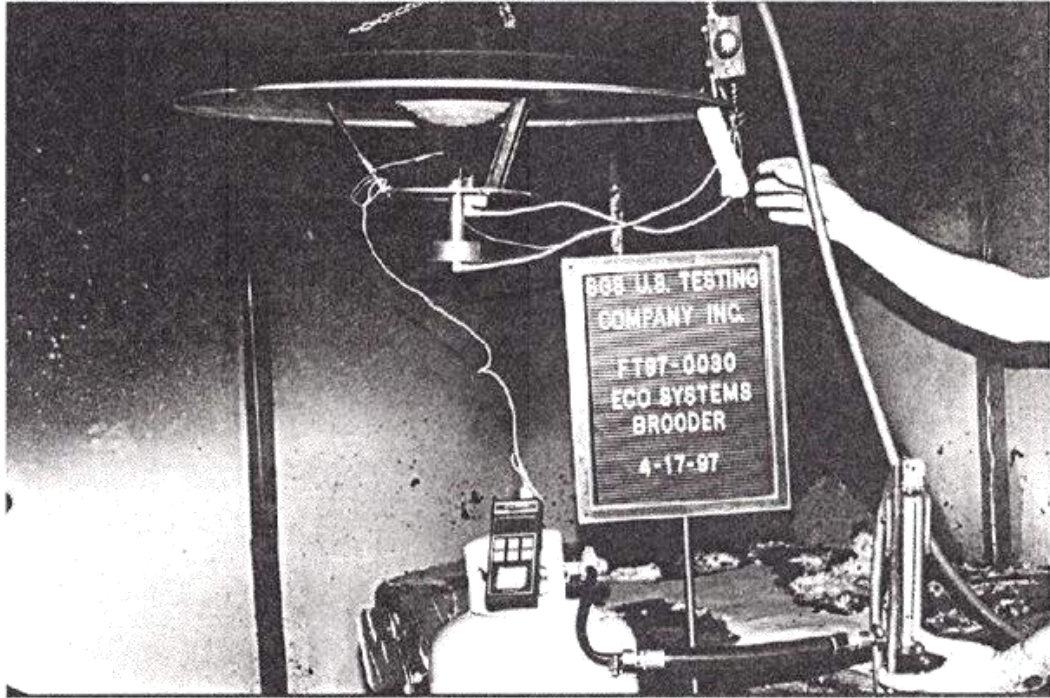
Client: Emissions Technology, Inc.

Report No.: FT97-0030

Date: 4/22/97

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REPORT OF TEST



Systems Brooder with ECO System Installed

Client: Emissions Technology, Inc.

Report No.: FT97-0030

Date: 4/22/97

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REPORT OF TEST



Standard Brooder without Set-up