ANALYSTS MAINTENANCE LABS, INC.
ISO 17025 ACCREDITED TESTING LAB
2450 HASSELL RD, HOFFMAN ESTS., IL 60195
(PH) (800) 222-0071 (FX) (847) 884-8098

AMTRAK - FORT WORTH
WILLIAM SHAFFER
1001 JONES STREET
FORT WORTH TX 76102

Lab Number: 9481
Logged Date: 25-JAN-10
Sample Drawn: 25-JAN-10L
Report Date: 09-FEB-10
Record Ref.#: 9585352

Unit ID: UNSPECIFIED
Sample ID: DIESEL FUEL SAMPLE
Worksite:
Time On Fluid:

Mfg.: DOES NOT APPLY
Model: -
PO No.: BO3913648
Time On System:

Requirements for:
Amtrak SMP22403 diesel 2 ultralow sulfur

TESTING PERFORMED:	MEASURED	MIN	MAX
D86 - Distillation, Deg F			
- Initial Boiling Pt. Temp.	352		
- Evaporated - 5 % temp	388		
- 10 % temp	404	401	460
- 20 % temp	426		
- 30 % temp	453		
- 40 % temp	477		
- Evaporated - 50 % temp	501	471	540
- 60 % temp	523		
- 70 % temp	546		
- 80 % temp	572		
- Evaporated - 90 % temp	604	560	640
- 95 % temp	629		
- End Point - FBP temp.	653		
- Recovery % vol	98.9		
- Residue % vol	0.9		
- Loss % vol	0.2		
Viscosity @ 40'C, cSt - D445	2.3	1.9	4.1
API Gravity @ 60 'F - D1298	39.5	32	38
Cetane Index (Calc.) - D976	53.6	40	47
Cloud Point, 'F - D2500	3		
Pour Point, 'F - D97	-6		
Flash Point PMCC, 'F - D93	140	125	
Water & Sediment, %vol. - D1796	<.05		.05
Lubricity by HFRR, D6079			
Wear Scar Diameter, mm	0.370		.450
Wear Scar--Major Axis, mm	0.42		
Wear Scar--Minor Axis, mm	0.32		
Wear Scar Description	N/R		
Analysis (sample) temp, 'C	60.0		
Total Sulfur by UVF, D5453, mg/kg	3.9		15

Continued...

Lab# : 9461 Dated : 26-JAN-10 ...Continued

RECOMMENDATIONS / COMMENTS:

ANALYSIS INDICATES ABNORMAL FUEL CONDITIONS! FOR THE TESTS PERFORMED, THIS SAMPLE DOES NOT MEET AMTRAK SMP 22403 REQUIREMENTS! The API gravity and the calculated cetane index do NOT meet the SMP requirement. This condition should not adversely affect fuel performance. Fuel is SUITABLE for use. AMTRAK should contact Mechanical Desk and fuel supplier. Identify and RESAMPLE original fuelling source.

Respectfully Submitted,

DATA ANALYST

Analysts, Inc.

ANA
LABORATORIES
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PHONE: 1-800-648-2625 or 856-931-0011
FAX: 856-931-5205
EMAIL: lab@analaboratories.com

Lab Number: S10B13055
Customer I.D: AMTRAKFTX
Source: Fort Worth
Sample Date: N/A
Product Type: Fuel
Report Date: 3/4/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST DESCRIPTION		ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	**38.4**	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	**356**	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	**402**	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	**502**	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	**612**	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	**660**	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	**98.0**	volume %
3)	Cetane Index	D-976	40 minimum	**51.7**	
4)	Water and Sediment	D-1796	0.0500 maximum	**<0.0010**	volume %
5)	Sulfur content	D-5453	15 maximum	**6**	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	**2.54**	cSt
7)	Cloud Point	D-2500	Report	**9**	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	**159**	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	**273**	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
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EMAIL: lab@analaboratories.com

Lab Number: S10D5339
Customer I.D: AMTRAKFTX
Source: N/A
Sample Date: 4/1/2010
Product Type: Fuel
Report Date: 4/19/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST	DESCRIPTION	ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	38.4	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	350	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	390	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	502	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	582	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	626	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	98.9	volume %
3)	Cetane Index	D-976	40 minimum	50.8	
4)	Water and Sediment	D-1796	0.0500 maximum	<0.0010	volume %
5)	Sulfur content	D-5453	15 maximum	8	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	2.39	cSt
7)	Cloud Point	D-2500	Report	12	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	150	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	257	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
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FAX: 856-931-5205
EMAIL: lab@analaboratories.com

Lab Number: S10D5340
Customer I.D: AMTRAKFTX
Source: 500
Sample Date: 4/2/2010
Product Type: Fuel
Report Date: 4/19/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST DESCRIPTION		ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	32.2	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	380	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	430	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	560	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	640	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	676	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	98.8	volume %
3)	Cetane Index	D-976	40 minimum	45.2	
4)	Water and Sediment	D-1796	0.0500 maximum	<0.0010	volume %
5)	Sulfur content	D-5453	15 maximum	9	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	3.10	cSt
7)	Cloud Point	D-2500	Report	6	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	152	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	189	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
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EMAIL: lab@analaboratories.com

Lab Number: S10D18980
Customer I.D: AMTRAKFTX
Source: 500
Sample Date: 4/17/2010
Product Type: Fuel
Report Date: 5/10/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST	DESCRIPTION	ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	38.5	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	356	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	388	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	486	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	582	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	614	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	98.0	volume %
3)	Cetane Index	D-976	40 minimum	49.3	
4)	Water and Sediment	D-1796	0.0500 maximum	<0.0010	volume %
5)	Sulfur content	D-5453	15 maximum	8	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	2.32	cSt
7)	Cloud Point	D-2500	Report	2	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	145	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	296	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
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EMAIL: lab@analaboratories.com

Lab Number: S10E4431
Customer I.D: AMTRAKFTX
Source: TRUCK
Sample Date: 4/30/2010
Product Type: Fuel
Report Date: 5/17/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST	DESCRIPTION	ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	**32.7**	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	**392**	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	**440**	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	**540**	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	**638**	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	**662**	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	**98.0**	volume %
3)	Cetane Index	D-976	40 minimum	**45.7**	
4)	Water and Sediment	D-1796	0.0500 maximum	**<0.0010**	volume %
5)	Sulfur content	D-5453	15 maximum	**7**	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	**3.32**	cSt
7)	Cloud Point	D-2500	Report	**24**	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	**161**	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	**214**	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
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EMAIL: lab@analaboratories.com

Lab Number: S10E11991
Customer I.D: AMTRAKFTX
Source: TRUCK
Sample Date: 5/14/2010
Product Type: Fuel
Report Date: 5/27/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST DESCRIPTION		ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	38.2	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	348	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	388	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	499	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	590	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	630	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	98.8	volume %
3)	Cetane Index	D-976	40 minimum	50.2	
4)	Water and Sediment	D-1796	0.0500 maximum	<0.0010	volume %
5)	Sulfur content	D-5453	15 maximum	8	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	2.46	cSt
7)	Cloud Point	D-2500	Report	8	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	149	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	296	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
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Lab Number: S10F15805
Customer I.D: AMTRAKFTX
Source: TRUCK
Sample Date: N/A
Product Type: Fuel
Report Date: 7/6/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST DESCRIPTION		ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	32.7	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	344	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	401	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	498	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	614	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	658	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	98.0	volume %
3)	Cetane Index	D-976	40 minimum	40.8	
4)	Water and Sediment	D-1796	0.0500 maximum	<0.0010	volume %
5)	Sulfur content	D-5453	15 maximum	9	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	2.56	cSt
7)	Cloud Point	D-2500	Report	4	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	150	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	281	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
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EMAIL: lab@analaboratories.com

Lab Number: S10G743
Customer I.D: AMTRAKFTX
Source: N/A
Sample Date: N/A
Product Type: Fuel
Report Date: 7/6/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST DESCRIPTION		ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	37.8	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	356	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	390	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	490	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	590	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	642	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	98.0	volume %
3)	Cetane Index	D-976	40 minimum	48.3	
4)	Water and Sediment	D-1796	0.0500 maximum	<0.0010	volume %
5)	Sulfur content	D-5453	15 maximum	11	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	2.43	cSt
7)	Cloud Point	D-2500	Report	5	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	145	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	258	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
130-B, HARDING AVE. BELLMAWR, NJ 08031
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Lab Number: S10G13561
Customer I.D: AMTRAKFTX
Source: 7
Sample Date: 7/20/2010
Product Type: ULSD
Report Date: 8/9/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST DESCRIPTION		ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	39.2	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	354	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	380	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	486	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	590	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	628	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	98.0	volume %
3)	Cetane Index	D-976	40 minimum	50.6	
4)	Water and Sediment	D-1796	0.0500 maximum	<0.0010	volume %
5)	Sulfur content	D-5453	15 maximum	18	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	2.11	cSt
7)	Cloud Point	D-2500	Report	4	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	152	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	269	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
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Lab Number: S10H2976
Customer I.D: AMTRAKFTX
Source: N/A
Sample Date: 8/2/2010
Product Type: ULSD
Report Date: 8/18/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST DESCRIPTION		ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	37.1	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	340	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	380	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	490	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	596	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	642	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	98.5	volume %
3)	Cetane Index	D-976	40 minimum	46.8	
4)	Water and Sediment	D-1796	0.0500 maximum	<0.0010	volume %
5)	Sulfur content	D-5453	15 maximum	8	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	2.38	cSt
7)	Cloud Point	D-2500	Report	2	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	149	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	404	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
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Lab Number: S10H12023
Customer I.D: AMTRAKFTX
Source: N/A
Sample Date: 8/17/2010
Product Type: ULSD
Report Date: 9/7/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST DESCRIPTION		ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	37.1	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	336	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	370	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	484	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	600	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	640	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	98.0	volume %
3)	Cetane Index	D-976	40 minimum	46.0	
4)	Water and Sediment	D-1796	0.0500 maximum	<0.0010	volume %
5)	Sulfur content	D-5453	15 maximum	8	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	2.38	cSt
7)	Cloud Point	D-2500	Report	5	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	150	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	389	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
130-B, HARDING AVE. BELLMAWR, NJ 08031
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EMAIL: lab@analaboratories.com

Lab Number: S10J15342
Customer I.D: AMTRAKFTX
Source: N/A
Sample Date: N/A
Product Type: ULSD
Report Date: 10/19/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST	DESCRIPTION	ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	**38.2**	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	**356**	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	**390**	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	**498**	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	**590**	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	**644**	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	**98.0**	volume %
3)	Cetane Index	D-976	40 minimum	**50.1**	
4)	Water and Sediment	D-1796	0.0500 maximum	**<0.0010**	volume %
5)	Sulfur content	D-5453	15 maximum	**6**	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	**2.43**	cSt
7)	Cloud Point	D-2500	Report	**5**	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	**149**	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	**367**	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
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Lab Number: S10K16187
Customer I.D: AMTRAKFTX
Source: 500
Sample Date: 10/20/2010
Product Type: ULSD
Report Date: 11/6/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST DESCRIPTION		ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	38.3	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	340	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	382	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	500	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	590	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	630	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	98.3	volume %
3)	Cetane Index	D-976	40 minimum	50.1	
4)	Water and Sediment	D-1796	0.0500 maximum	<0.0010	volume %
5)	Sulfur content	D-5453	15 maximum	8	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	2.44	cSt
7)	Cloud Point	D-2500	Report	7	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	162	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	243	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
130-B, HARDING AVE. BELLMAWR, NJ 08031
P.O. BOX 727 BELLMAWR, NJ 08099-0029
PHONE: 1-800-648-2625 or 856-931-0011
FAX: 856-931-5205
EMAIL: lab@analaboratories.com

Lab Number: S10K18233
Customer I.D: AMTRAKFTX
Source: 500
Sample Date: 10/28/2010
Product Type: ULSD
Report Date: 11/6/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST	DESCRIPTION	ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	37.5	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	342	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	390	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	508	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	596	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	630	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	98.5	volume %
3)	Cetane Index	D-976	40 minimum	49.7	
4)	Water and Sediment	D-1796	0.0500 maximum	<0.0010	volume %
5)	Sulfur content	D-5453	15 maximum	9	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	2.48	cSt
7)	Cloud Point	D-2500	Report	7	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	156	Degrees Fahrenheit
9)	Lubricity by HFRR	D-6079	520 maximum	262	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
130-B, HARDING AVE. BELLMAWR, NJ 08031
P.O. BOX 727 BELLMAWR, NJ 08099-0029
PHONE: 1-800-648-2625 or 856-931-0011
FAX: 856-931-5205
EMAIL: lab@analaboratories.com

Lab Number: S10M2581
Customer I.D: AMTRAKFTX
Source: 500
Sample Date: 11/29/2010
Product Type: ULSD
Report Date: 12/14/2010

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST DESCRIPTION		ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	36.6	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	340	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	384	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	500	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	618	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	656	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	98.0	volume %
3)	Cetane Index	D-976	40 minimum	47.3	
4)	Water and Sediment	D-1796	0.0500 maximum	<0.0010	volume %
5)	Sulfur content	D-5453	15 maximum	9	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	2.52	cSt
7)	Cloud Point	D-2500	Report	7	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	149	Degrees Fahrenheit
9)	Ash Content	D-482	0.01 maximum	0.005	weight %
10)	Carbon Residue 10% bot.	D-524	0.35 maximum	0.098	weight %
11)	Lubricity by HFRR	D-6079	520 maximum	419	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA LABORATORIES
130-B, HARDING AVE. BELLMAWR, NJ 08031
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FAX: 856-931-5205
EMAIL: lab@analaboratories.com

Lab Number: S10M16495
Customer I.D: AMTRAKFTX
Source: 500
Sample Date: 12/20/2010
Product Type: ULSD
Report Date: 1/6/2011

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST DESCRIPTION		ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	37.2	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	356	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	396	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	498	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	598	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	628	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	98.0	volume %
3)	Cetane Index	D-976	40 minimum	46.0	
4)	Water and Sediment	D-1796	0.0500 maximum	<0.0010	volume %
5)	Sulfur content	D-5453	15 maximum	8	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	2.31	cSt
7)	Cloud Point	D-2500	Report	5	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	145	Degrees Fahrenheit
9)	Ash Content	D-482	0.01 maximum	0.005	weight %
10)	Carbon Residue 10% bot.	D-524	0.35 maximum	0.076	weight %
11)	Lubricity by HFRR	D-6079	520 maximum	410	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
130-B, HARDING AVE. BELLMAWR, NJ 08031
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FAX: 856-931-5205
EMAIL: lab@analaboratories.com

Lab Number: S11B879
Customer I.D: AMTRAKFTX
Source: 500
Sample Date: 1/27/2011
Product Type: ULSD
Report Date: 2/25/2011

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST	DESCRIPTION	ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	**36.8**	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	**368**	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	**408**	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	**508**	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	**600**	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	**638**	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	**98.0**	volume %
3)	Cetane Index	D-976	40 minimum	**49.2**	
4)	Water and Sediment	D-1796	0.0500 maximum	**<0.0010**	volume %
5)	Sulfur content	D-5453	15 maximum	**10**	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	**2.54**	cSt
7)	Cloud Point	D-2500	Report	**7**	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	**149**	Degrees Fahrenheit
9)	Ash Content	D-482	0.01 maximum	**0.005**	weight %
10)	Carbon Residue 10% bot.	D-524	0.35 maximum	**0.078**	weight %
11)	Lubricity by HFRR	D-6079	520 maximum	**316**	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
130-B, HARDING AVE. BELLMAWR, NJ 08031
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FAX: 856-931-5205
EMAIL: lab@analaboratories.com

Lab Number: S11C4846
Customer I.D: AMTRAKFTX
Source: 500
Sample Date: 3/2/2011
Product Type: ULSD
Report Date: 3/22/2011

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST	DESCRIPTION	ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	**35.8**	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	**370**	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	**410**	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	**504**	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	**600**	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	**618**	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	**99.0**	volume %
3)	Cetane Index	D-976	40 minimum	**46.9**	
4)	Water and Sediment	D-1796	0.0500 maximum	**<0.0010**	volume %
5)	Sulfur content	D-5453	15 maximum	**10**	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	**2.45**	cSt
7)	Cloud Point	D-2500	Report	**9**	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	**154**	Degrees Fahrenheit
9)	Ash Content	D-482	0.01 maximum	**0.005**	weight %
10)	Carbon Residue 10% bot.	D-524	0.35 maximum	**0.065**	weight %
11)	Lubricity by HFRR	D-6079	520 maximum	**294**	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
130-B, HARDING AVE. BELLMAWR, NJ 08031
P.O. BOX 727 BELLMAWR, NJ 08099-0029
PHONE: 1-800-648-2625 or 856-931-0011
FAX: 856-931-5205
EMAIL: lab@analaboratories.com

Lab Number: S11D6749
Customer I.D: AMTRAKFTX
Source: 500
Sample Date: 3/22/2011
Product Type: ULSD
Report Date: 4/19/2011

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST	DESCRIPTION	ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	**37.6**	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	**356**	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	**392**	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	**508**	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	**598**	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	**634**	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	**99.0**	volume %
3)	Cetane Index	D-976	40 minimum	**50.1**	
4)	Water and Sediment	D-1796	0.0500 maximum	**<0.0010**	volume %
5)	Sulfur content	D-5453	15 maximum	**9**	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	**2.66**	cSt
7)	Cloud Point	D-2500	Report	**10**	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	**149**	Degrees Fahrenheit
9)	Ash Content	D-482	0.01 maximum	**0.005**	weight %
10)	Carbon Residue 10% bot.	D-524	0.35 maximum	**0.059**	weight %
11)	Lubricity by HFRR	D-6079	520 maximum	**266**	microns

Comment: All test results are within specifications.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
130-B, HARDING AVE. BELLMAWR, NJ 08031
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PHONE: 1-800-648-2625 or 856-931-0011
FAX: 856-931-5205
EMAIL: lab@analaboratories.com

Lab Number: S11E1512
Customer I.D: AMTRAKFTX
Source: 500
Sample Date: 4/26/2011
Product Type: ULSD
Report Date: 5/18/2011

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST	DESCRIPTION	ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	**37.0**	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	**350**	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	**396**	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	**508**	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	**600**	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	**638**	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	**99.0**	volume %
3)	Cetane Index	D-976	40 minimum	**49.0**	
4)	Water and Sediment	D-1796	0.0500 maximum	**<0.0010**	volume %
5)	Sulfur content	D-5453	15 maximum	**5**	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	**2.70**	cSt
7)	Cloud Point	D-2500	Report	**9**	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	**156**	Degrees Fahrenheit
9)	Ash Content	D-482	0.01 maximum	**0.005**	weight %
10)	Carbon Residue 10% bot.	D-524	0.35 maximum	**0.067**	weight %
11)	Lubricity by HFRR	D-6079	520 maximum	**555**	microns

Comment: Result in yellow it out of specification.

For ANA LABORATORIES, INC.

ANA
LABORATORIES
130-B, HARDING AVE. BELLMAWR, NJ 08031
P.O. BOX 727 BELLMAWR, NJ 08099-0029
PHONE: 1-800-648-2625 or 856-931-0011
FAX: 856-931-5205
EMAIL: lab@analaboratories.com

Lab Number: S11F6558
Customer I.D: AMTRAKFTX
Source: 500
Sample Date: N/A
Product Type: ULSD
Report Date: 6/27/2011

AMTRAK
ATTENTION:
TIM COOPER
400 SOUTH HOUSTON ST. STE. 100
DALLAS, TX 75202

TEST	DESCRIPTION	ASTM	SPECIFICATION	RESULT	UNITS
1)	Api Gravity	D-287	30 minimum	**35.6**	°
2)	Distillation	D-86			
	Initial Boiling Point		345 (typical)	**350**	Degrees Fahrenheit
	10 % Recovered Volume		420 (typical)	**388**	Degrees Fahrenheit
	50 % Recovered Volume		500 (typical)	**500**	Degrees Fahrenheit
	90 % Recovered Volume		540 minimum / 640 maximum	**598**	Degrees Fahrenheit
	Final Boiling Point		670 (typical)	**612**	Degrees Fahrenheit
	Total Recovered Vol.	D-86	98.0 minimum	**98.5**	volume %
3)	Cetane Index	D-976	40 minimum	**45.2**	
4)	Water and Sediment	D-1796	0.0500 maximum	**<0.0010**	volume %
5)	Sulfur content	D-5453	15 maximum	**7**	parts per million
6)	Viscosity @ 40 degrees C	D-445	1.9 minimum / 4.1 maximum	**2.55**	cSt
7)	Cloud Point	D-2500	Report	**9**	Degrees Fahrenheit
8)	Flash Point	D-93	126 minimum	**153**	Degrees Fahrenheit
9)	Ash Content	D-482	0.01 maximum	**0.005**	weight %
10)	Carbon Residue 10% bot.	D-524	0.35 maximum	**0.083**	weight %
11)	Lubricity by HFRR	D-6079	520 maximum	**423**	microns

Comment: Test results are within specification.

For ANA LABORATORIES, INC.