ANA LABORATORIES, INC.

130 Harding Avenue, Suite B, Bellmawr, NJ 08031

(856) 931-0011 * (800) 648-2625

	Unit	System	Lubricant
Id. / Type	16THST	RAIL	6E
Make			
Model			

SAMPLE SEVERITY

N

SAMPLE DATA / ELEMENTAL ANALYSIS / OIL QUALITY

ELEMENTAL ANALYSIS — VALUES EXPRESSED IN PARTS PER MILLION (PPM) BY WEIGHT

LAB #	DATE TAKEN/ TESTED	HRS/MI OIL UNIT	Iron	Chromium	Lead	Copper	Tin	Aluminum	Nickel	Silver	Silicon	Boron	Sodium	Magnesium	Calcium	Barium	Phosphorus	Zinc	Titanium	Vanadium	Potassium	FUEL	VISCOSITY cSt. @ 40C	VISCOSITY cSt. @ 100C	WATER % by volume	SOLIDS	GLYCOL
R09M017548	12/23/2009	0 M	3	0	0	0	0	1	0	0	4	0	6	18	6018	0	0	0	0	0	0	0.00	138.50	15.40	0.01	0.00	N
	12/28/2009	0 M																									

ADDITIONAL TESTS

LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles	OXIDATION	NITRATION	SULFATE
R09M017548	16.0	0.7	0.010	0.00	2.20	0.00

ANALYSIS RECOMMENDATIONS

LAB #	
R09M017548	ANALYSIS FOR YOUR REFERENCE AND TO ESTABLISH BASE LINE.

CLIENT: **CLIENT ID: AMTRAKTX**

AMTRAK

ATTN TIM COOPER
400 SOUTH HOUSTON ST.- STE. 100
DALLAS, TX 75202

ANA LABORATORIES, INC.

130 Harding Avenue, Suite B, Bellmawr, NJ 08031

(856) 931-0011 * (800) 648-2625

	Unit	System	Lubricant
Id. / Type	500	RAIL	6R
Make			
Model			

SAMPLE SEVERITY

N

SAMPLE DATA / ELEMENTAL ANALYSIS / OIL QUALITY

VALUES EXPRESSED IN PARTS PER MILLION (PPM) BY WEIGHT

LAB #	DATE TAKEN/ TESTED	HRS/MI OIL UNIT	Iron	Chromium	Lead	Copper	Tin	Aluminum	Nickel	Silver	Silicon	Boron	Sodium	Magnesium	Calcium	Barium	Phosphorus	Zinc	Titanium	Vanadium	Potassium	FUEL	VISCOSITY cSt. @ 40C	VISCOSITY cSt. @ 100C	WATER % by volume	SOLIDS	GLYCOL
R10C009153	3/8/2010	0 M	7	0	2	2	0	4	0	0	8	1	5	13	4471	0	0	3	0	1	2	0.00		15.69	0.00	0.00	N
	3/12/2010	0 M																									

ADDITIONAL TESTS

LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles	OXIDATION	NITRATION	SULFATE
R10C009153	0.0	0.0	0.000	0.00	0.00	0.00

ANALYSIS RECOMMENDATIONS

LAB #	
R10C009153	NO CORRECTIVE ACTION NEEDED!

CLIENT: **CLIENT ID: AMTRAKFTX**

AMTRAK
FORT WORTH
ATTN TIM COOPER
400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202

ANA LABORATORIES, INC.

130 Harding Avenue, Suite B, Bellmawr, NJ 08031

(856) 931-0011 * (800) 648-2625

	Unit	System	Lubricant
Id. / Type	500	RAIL	6R
Make			
Model			

SAMPLE SEVERITY

N

SAMPLE DATA / ELEMENTAL ANALYSIS / OIL QUALITY

VALUES EXPRESSED IN PARTS PER MILLION (PPM) BY WEIGHT

LAB #	DATE TAKEN/ TESTED	HRS/MI OIL UNIT	Iron	Chromium	Lead	Copper	Tin	Aluminum	Nickel	Silver	Silicon	Boron	Sodium	Magnesium	Calcium	Barium	Phosphorus	Zinc	Titanium	Vanadium	Potassium	FUEL	VISCOSITY cSt. @ 40C	VISCOSITY cSt. @ 100C	WATER % by volume	SOLIDS	GLYCOL
R10C017331	3/18/2010	0 M	6	0	0	1	0	2	0	0	5	0	4	12	4592	0	0	0	0	1	1	0.00		15.15	0.00	0.00	N
	3/24/2010	0 M																									

ADDITIONAL TESTS

LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles	OXIDATION	NITRATION	SULFATE
R10C017331	0.0	0.0	0.000	0.00	0.00	0.00

ANALYSIS RECOMMENDATIONS

LAB #	
R10C017331	NO CORRECTIVE ACTION NEEDED!

CLIENT: **CLIENT ID:** AMTRAKFTX

AMTRAK
FORT WORTH
ATTN TIM COOPER
400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202

ANA LABORATORIES, INC.

130 Harding Avenue, Suite B, Bellmawr, NJ 08031

(856) 931-0011 * (800) 648-2625

	Unit	System	Lubricant
Id. / Type	500	RAIL	6R
Make			
Model			

SAMPLE SEVERITY

N

SAMPLE DATA / ELEMENTAL ANALYSIS / OIL QUALITY

ELEMENTAL ANALYSIS — VALUES EXPRESSED IN PARTS PER MILLION (PPM) BY WEIGHT

LAB #	DATE TAKEN/ TESTED	HRS/MI OIL UNIT	Iron	Chromium	Lead	Copper	Tin	Aluminum	Nickel	Silver	Silicon	Boron	Sodium	Magnesium	Calcium	Barium	Phosphorus	Zinc	Titanium	Vanadium	Potassium	FUEL	VISCOSITY cSt. @ 40C	VISCOSITY cSt. @ 100C	WATER % by volume	SOLIDS	GLYCOL
R10D005337	4/2/2010	0 M	7	0	1	1	0	2	0	0	12	0	5	12	4314	0	22	0	0	1	1	0.00		15.39	0.00	0.00	N
	4/9/2010	0 M																									

ADDITIONAL TESTS

LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles	OXIDATION	NITRATION	SULFATE
R10D005337	0.0	0.0	0.000	0.00	0.00	0.00

ANALYSIS RECOMMENDATIONS

LAB #	
R10D005337	NO CORRECTIVE ACTION NEEDED!

CLIENT: **CLIENT ID:** AMTRAKFTX

AMTRAK
FORT WORTH
ATTN TIM COOPER
400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202

ANA LABORATORIES, INC.

130 Harding Avenue, Suite B, Bellmawr, NJ 08031

(856) 931-0011 * (800) 648-2625

	Unit	System	Lubricant
Id. / Type	500	RAIL	6R
Make			
Model			

SAMPLE SEVERITY

N

SAMPLE DATA / ELEMENTAL ANALYSIS / OIL QUALITY

ELEMENTAL ANALYSIS — VALUES EXPRESSED IN PARTS PER MILLION (PPM) BY WEIGHT

LAB #	DATE TAKEN/ TESTED	HRS/MI OIL UNIT	Iron	Chromium	Lead	Copper	Tin	Aluminum	Nickel	Silver	Silicon	Boron	Sodium	Magnesium	Calcium	Barium	Phosphorus	Zinc	Titanium	Vanadium	Potassium	FUEL	VISCOSITY cSt. @ 40C	VISCOSITY cSt. @ 100C	WATER % by volume	SOLIDS	GLYCOL
R10D006460	4/6/2010	0 M	3	0	2	0	0	1	0	0	0	0	5	3	4053	0	0	0	0	1	2	0.00	134.20	15.00	0.00	0.40	N
	4/12/2010	0 M																									

ADDITIONAL TESTS

LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles	OXIDATION	NITRATION	SULFATE
R10D006460	9.0	1.6	1.200	9.30	10.30	7.00

ANALYSIS RECOMMENDATIONS

LAB #	
R10D006460	NO CORRECTIVE ACTION NEEDED!

CLIENT: **CLIENT ID: AMTRAKFTX**

AMTRAK
FORT WORTH
ATTN TIM COOPER
400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202

ANA LABORATORIES, INC.

130 Harding Avenue, Suite B, Bellmawr, NJ 08031

(856) 931-0011 * (800) 648-2625

	Unit	System	Lubricant
Id. / Type	500	RAIL	6R
Make			
Model			

SAMPLE SEVERITY

N

SAMPLE DATA

LAB #	DATE TAKEN/ TESTED	HRS/MI OIL UNIT
R10D013212	4/16/2010	0 M
	4/23/2010	0 M

ELEMENTAL ANALYSIS

VALUES EXPRESSED IN PARTS PER MILLION (PPM) BY WEIGHT

Iron	Chromium	Lead	Copper	Tin	Aluminum	Nickel	Silver	Silicon	Boron	Sodium	Magnesium	Calcium	Barium	Phosphorus	Zinc	Titanium	Vanadium	Potassium
8	0	0	1	0	2	0	0	2	0	6	11	3897	0	0	0	0	1	2

OIL QUALITY

FUEL	VISCOSITY cSt. @ 40C	VISCOSITY cSt. @ 100C	WATER % by volume	SOLIDS	GLYCOL
0.00	134.80	15.05	0.00	0.60	N

ADDITIONAL TESTS

LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles	OXIDATION	NITRATION	SULFATE
R10D013212	7.0	4.9	1.200	15.40	4.20	12.30

ANALYSIS RECOMMENDATIONS

LAB #	
R10D013212	NO CORRECTIVE ACTION NEEDED!

CLIENT: **CLIENT ID: AMTRAKFTX**

AMTRAK
FORT WORTH
ATTN TIM COOPER
400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202

ANA LABORATORIES, INC.

130 Harding Avenue, Suite B, Bellmawr, NJ 08031

(856) 931-0011 * (800) 648-2625

	Unit	System	Lubricant
Id. / Type	500	RAIL	6R
Make			
Model			

SAMPLE SEVERITY

N

SAMPLE DATA / ELEMENTAL ANALYSIS / OIL QUALITY

ELEMENTAL ANALYSIS — VALUES EXPRESSED IN PARTS PER MILLION (PPM) BY WEIGHT

LAB #	DATE TAKEN/ TESTED	HRS/MI OIL UNIT	Iron	Chromium	Lead	Copper	Tin	Aluminum	Nickel	Silver	Silicon	Boron	Sodium	Magnesium	Calcium	Barium	Phosphorus	Zinc	Titanium	Vanadium	Potassium	FUEL	VISCOSITY cSt. @ 40C	VISCOSITY cSt. @ 100C	WATER % by volume	SOLIDS	GLYCOL
R10E000789	4/26/2010	0 M	12	0	1	2	0	3	0	0	10	0	8	11	4751	0	0	0	0	1	0	0.00	135.20	15.74	0.00	0.50	N
	5/3/2010	0 M																									

ADDITIONAL TESTS

LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles	OXIDATION	NITRATION	SULFATE
R10E000789	6.0	1.5	1.100	6.60	6.60	5.30

ANALYSIS RECOMMENDATIONS

LAB #	
R10E000789	NO CORRECTIVE ACTION NEEDED!

CLIENT: **CLIENT ID:** AMTRAKFTX

AMTRAK
FORT WORTH
ATTN TIM COOPER
400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202

ANA LABORATORIES, INC.

130 Harding Avenue, Suite B, Bellmawr, NJ 08031

(856) 931-0011 * (800) 648-2625

	Unit	System	Lubricant
Id. / Type	500	RAIL	6R
Make			
Model			

SAMPLE SEVERITY

N

SAMPLE DATA / ELEMENTAL ANALYSIS / OIL QUALITY

ELEMENTAL ANALYSIS — VALUES EXPRESSED IN PARTS PER MILLION (PPM) BY WEIGHT

LAB #	DATE TAKEN/ TESTED	HRS/MI OIL UNIT	Iron	Chromium	Lead	Copper	Tin	Aluminum	Nickel	Silver	Silicon	Boron	Sodium	Magnesium	Calcium	Barium	Phosphorus	Zinc	Titanium	Vanadium	Potassium	FUEL	VISCOSITY cSt. @ 40C	VISCOSITY cSt. @ 100C	WATER % by volume	SOLIDS	GLYCOL
R10E007828	5/6/2010	0 M	10	0	0	2	0	2	0	0	6	0	4	12	4026	0	52	2	0	1	1	0.00	130.60	15.17	0.00	0.50	N
	5/13/2010	0 M																									

ADDITIONAL TESTS

LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles	OXIDATION	NITRATION	SULFATE
R10E007828	7.0	0.9	1.300	1.40	2.50	0.20

ANALYSIS RECOMMENDATIONS

LAB #	
R10E007828	NO CORRECTIVE ACTION NEEDED!

CLIENT: **CLIENT ID:** AMTRAKFTX

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FORT WORTH
ATTN TIM COOPER
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DALLAS, TX 75202

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(856) 931-0011 * (800) 648-2625

	Unit	System	Lubricant
Id. / Type	500	RAIL	6R
Make			
Model			

SAMPLE SEVERITY

N

SAMPLE DATA / ELEMENTAL ANALYSIS / OIL QUALITY

VALUES EXPRESSED IN PARTS PER MILLION (PPM) BY WEIGHT

LAB #	DATE TAKEN/ TESTED	HRS/MI OIL UNIT	Iron	Chromium	Lead	Copper	Tin	Aluminum	Nickel	Silver	Silicon	Boron	Sodium	Magnesium	Calcium	Barium	Phosphorus	Zinc	Titanium	Vanadium	Potassium	FUEL	VISCOSITY cSt. @ 40C	VISCOSITY cSt. @ 100C	WATER % by volume	SOLIDS	GLYCOL
R10F011423	6/10/2010	0 M	5	0	0	1	0	3	0	0	12	10	4	15	5728	0	0	0	0	0	1	0.00	136.40	15.09	0.00	0.10	N
	6/17/2010	0 M																									

ADDITIONAL TESTS

LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles	OXIDATION	NITRATION	SULFATE
R10F011423	10.0	0.7	1.200	5.10	6.90	3.30

ANALYSIS RECOMMENDATIONS

LAB #	
R10F011423	NO CORRECTIVE ACTION NEEDED!

CLIENT: **CLIENT ID: AMTRAKFTX**

AMTRAK
FORT WORTH
ATTN TIM COOPER
400 SOUTH HOUSTON ST. - STE 100
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ANA LABORATORIES, INC.

130 Harding Avenue, Suite B, Bellmawr, NJ 08031

(856) 931-0011 * (800) 648-2625

	Unit	System	Lubricant
Id. / Type	500	RAIL	6R
Make			
Model			

SAMPLE SEVERITY

N

SAMPLE DATA / ELEMENTAL ANALYSIS (VALUES EXPRESSED IN PARTS PER MILLION (PPM) BY WEIGHT) / OIL QUALITY

LAB #	DATE TAKEN/ TESTED	HRS/MI OIL UNIT	Iron	Chromium	Lead	Copper	Tin	Aluminum	Nickel	Silver	Silicon	Boron	Sodium	Magnesium	Calcium	Barium	Phosphorus	Zinc	Titanium	Vanadium	Potassium	FUEL	VISCOSITY cSt. @ 40C	VISCOSITY cSt. @ 100C	WATER % by volume	SOLIDS	GLYCOL
R10F015803	6/20/2010	0 M	10	1	0	1	0	6	0	0	17	10	4	19	5905	0	30	0	0	0	1	0.00		15.01	0.00	0.20	N
	6/25/2010	0 M																									

ADDITIONAL TESTS

LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles	OXIDATION	NITRATION	SULFATE
R10F015803	9.0	1.1	0.000	0.00	0.00	0.00

ANALYSIS RECOMMENDATIONS

LAB #	
R10F015803	NO CORRECTIVE ACTION NEEDED!

CLIENT: **CLIENT ID: AMTRAKFTX**

AMTRAK
FORT WORTH
ATTN TIM COOPER
400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202

ANA LABORATORIES, INC.

130 Harding Avenue, Suite B, Bellmawr, NJ 08031

(856) 931-0011 * (800) 648-2625

	Unit	System	Lubricant
Id. / Type	500	RAIL	6R
Make			
Model			

SAMPLE SEVERITY

N

SAMPLE DATA			ELEMENTAL ANALYSIS (VALUES EXPRESSED IN PARTS PER MILLION (PPM) BY WEIGHT)																			OIL QUALITY					
LAB #	DATE TAKEN/ TESTED	HRS/MI OIL UNIT	Iron	Chromium	Lead	Copper	Tin	Aluminum	Nickel	Silver	Silicon	Boron	Sodium	Magnesium	Calcium	Barium	Phosphorus	Zinc	Titanium	Vanadium	Potassium	FUEL	VISCOSITY cSt. @ 40C	VISCOSITY cSt. @ 100C	WATER % by volume	SOLIDS	GLYCOL
R10G003583	6/30/2010	0 M	7	0	0	4	0	3	0	0	4	7	4	11	5075	0	0	0	0	0	1	0.00	134.80	14.97	0.00	0.20	N
	7/7/2010	0 M																									
R10F015803	6/20/2010	0 M	10	1	0	1	0	6	0	0	17	10	4	19	5905	0	30	0	0	0	1	0.00		15.01	0.00	0.20	N
	6/25/2010	0 M																									
R10F011423	6/10/2010	0 M	5	0	0	1	0	3	0	0	12	10	4	15	5728	0	0	0	0	0	1	0.00	136.40	15.09	0.00	0.10	N
	6/17/2010	0 M																									
R10E007828	5/6/2010	0 M	10	0	0	2	0	2	0	0	6	0	4	12	4026	0	52	2	0	1	1	0.00	130.60	15.17	0.00	0.50	N
	5/13/2010	0 M																									

ADDITIONAL TESTS						
LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles	OXIDATION	NITRATION	SULFATE
R10G003583	9.0	0.7	1.300	4.80	6.00	3.10
R10F015803	9.0	1.1	0.000	0.00	0.00	0.00
R10F011423	10.0	0.7	1.200	5.10	6.90	3.30
R10E007828	7.0	0.9	1.300	1.40	2.50	0.20

LAB #	ANALYSIS RECOMMENDATIONS
R10G003583	NO CORRECTIVE ACTION NEEDED!
R10F015803	NO CORRECTIVE ACTION NEEDED!
R10F011423	NO CORRECTIVE ACTION NEEDED!
R10E007828	NO CORRECTIVE ACTION NEEDED!

CLIENT: **CLIENT ID: AMTRAKFTX**

AMTRAK
FORT WORTH
ATTN TIM COOPER
400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202

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1

ANA LABORATORIES, INC.

TEST REPORT

130-B Harding Ave, Bellmawr, New Jersey 08031-2409
(800) 648-2625 (856) 931-0011 Fax (856) 931-5205

Serving Customers Since 1973

User ID: AMTRAKFTX
History is for location: AMTRAKFTX
Lab #: R10G009185
Test Type:
Analyst: RBR

Company: AMTRAK
Location: FORT WORTH
Attention: TIM COOPER
Address: 400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202
Phone Number: (214)752-1167

Unit ID: NOUNIT
Unit Make:
Unit Model:
System ID: RAIL
System Make:
System Model:

Lab #	Sample Date	Process Date	Mile/Hr/Sys	Mile/Hr/Oil	Oil/Add	Oil/Drained	FF Fltr	BY Fltr
R10G009185	07/16/2010	07/16/2010	0 miles	0 miles	0	No	No	No

Metals (PPM) *	FE	CR	PB	CU	SN	AL	NI	AG	SI	B	NA	TI
R10G009185	7	0	2	1	0	0	1	0	3	7	4	0

Oil Quality	K*	V*	MO*	MG*	CA*	BA*	P*	ZN*	TBN *	TAN*	Visc@100C*	Visc@40C*
R10G009185	0	1	75	10	4417	7	121	0	7.4	0.7	15.1	137.3

Physical Tests	Fuel(%)	Water(%) *	Water(ppm)*	Soot *	Glycol *	Viscosity Index
R10G009185	0	0	0.01	0.1	N	n/a

Physical Tests	Ox	NOx	Sulfur	4u	6u	14u	21u	38u	70u	ISO/NAS
R10G009185	0	1.1	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Recommendation/Corrective Action

R10G009185 | NO CORRECTIVE ACTION NEEDED!

Since services are based on samples and information supplied by others, and since corrective action, if any, is necessarily taken by others, these services are rendered without any warranty or liability. * These tests are accredited and meet the requirements of ISO-17025 verified by the ANSI- ASQ National Accreditation Board/ACLASS Accreditation# AT-1471.

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ANA LABORATORIES, INC.
130-B HARDING AVE, BELLMAWR, NEW JERSEY 08031-2409
(800) 648-2625 (856) 931-0011 FAX (856) 931-5205
SERVING CUSTOMERS SINCE 1973

Lab#: R10G013559 | Unit: 500 | System: RAIL | Make: | Model: | Lab Severity: NORMAL

SAMPLE DATA — ELEMENTAL ANALYSIS(Parts Per Million By Weight)

LAB#	SAMP DT	PROC DT	FE	CR	PB	CU	SN	AL	NI	AG	SI	B	NA	MG	CA	BA	P	ZN	TI	V	K
R10E007828	5/6/2010	5/13/2010	10	0	0	2	0	2	0	0	6	0	4	12	4026	0	52	2	0	1	1
R10F011423	6/10/2010	6/17/2010	5	0	0	1	0	3	0	0	12	10	4	15	5728	0	0	0	0	0	1
R10F015803	6/20/2010	6/25/2010	10	1	0	1	0	6	0	0	17	10	4	19	5905	0	30	0	0	0	1
R10G003583	6/30/2010	7/7/2010	7	0	0	4	0	3	0	0	4	7	4	11	5075	0	0	0	0	0	1
R10G013559	7/20/2010	7/23/2010	24	0	0	1	0	5	0	0	11	7	7	16	4636	0	37	4	0	0	6

OIL QUALITY

LAB#	T/OIL	T/SYS	ADD	CHG	FF	BY	Fuel(%)	Visc@100C	Visc@40C	Water%	Water(ppm)	Soot	Glycol
R10E007828	0 M	0 M	0 Q	NO	NO	NO	0	15.17	130.6	0	0.01	0.5	N
R10F011423	0 M	0 M	0 Q	NO	NO	NO	0	15.09	136.4	0	0.01	0.1	N
R10F015803	0 M	0 M	0 Q	NO	NO	NO	0	15.01	N/A	0	0	0.2	N
R10G003583	0 M	0 M	0 Q	NO	NO	NO	0	14.97	134.8	0	0.01	0.2	N
R10G013559	0 M	0 M	0 Q	NO	NO	NO	0	15.22	137.1	0	0.01	0.4	N

ADDITIONAL TESTS — PARTICLE COUNT

LAB#	TBN	TAN	Ox	NOx	Sulfur	Index	4µ	6µ	14µ	21µ	38µ	70µ	ISO/NAS
R10E007828	7.1	0.9	1.4	2.5	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R10F011423	9.6	0.7	5.1	6.9	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R10F015803	8.8	1.1	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R10G003583	8.6	0.7	4.8	6	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R10G013559	7.9	1.4	1.1	4.3	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ANALYSIS RECOMMENDATIONS

LAB#	RECOMMENDATION
R10E007828	NO CORRECTIVE ACTION NEEDED!
R10F011423	NO CORRECTIVE ACTION NEEDED!
R10F015803	NO CORRECTIVE ACTION NEEDED!
R10G003583	NO CORRECTIVE ACTION NEEDED!
R10G013559	NO CORRECTIVE ACTION NEEDED!

CUSTOMER INFORMATION

Equipment(History) is for Location: AMTRAKFTX
AMTRAK
FORT WORTH
400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202
TIM COOPER
(214)752-1167

ANA LABORATORIES, INC.

TEST REPORT

130-B Harding Ave, Bellmawr, New Jersey 08031-2409
(800) 648-2625 (856) 931-0011 Fax (856) 931-5205

Serving Customers Since 1973

User ID: AMTRAKFTX
History is for location: ALL
Lab #: R10J002825
Test Type:
Analyst: RBR

Company: AMTRAK
Location: FORT WORTH
Attention: TIM COOPER
Address: 400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202
Phone Number: (214)752-1167

Unit ID: 500
Unit Make:
Unit Model:
System ID: RAIL
System Make:
System Model:

Lab #	Sample Date	Process Date	Mile/Hr/Sys	Mile/Hr/Oil	Oil/Add	Oil/Drained	FF Fltr	BY Fltr
R10G003583	06/30/2010	07/07/2010	0 miles	0 miles	0	No	No	No
R10G013559	07/20/2010	07/23/2010	0 miles	0 miles	0	No	No	No
R10H008696	08/10/2010	08/16/2010	0 miles	0 miles	0	No	No	No
R10H014378	08/20/2010	08/26/2010	0 miles	0 miles	0	No	No	No
R10J002825	08/30/2010	09/07/2010	0 miles	0 miles	0	No	No	No

Metals (PPM) *	FE	CR	PB	CU	SN	AL	NI	AG	SI	B	NA	TI
R10G003583	7	0	0	4	0	3	0	0	4	7	4	0
R10G013559	24	0	0	1	0	5	0	0	11	7	7	0
R10H008696	10	1	2	1	0	3	1	0	7	7	5	0
R10H014378	9	1	1	1	0	2	1	0	4	5	5	0
R10J002825	4	0	0	1	0	2	0	0	2	4	4	0

Oil Quality	K*	V*	MO*	MG*	CA*	BA*	P*	ZN*	TBN *	TAN*	Visc@100C*	Visc@40C*
R10G003583	1	0	87	11	5075	0	0	0	8.6	0.7	14.97	134.8
R10G013559	6	0	89	16	4636	0	37	4	7.9	1.4	15.22	137.1
R10H008696	0	2	78	15	4988	1	39	3	8.5	1.8	17.06	136.4
R10H014378	0	1	71	12	4463	2	53	1	8.7	1.2	15.33	139.3
R10J002825	1	0	58	9	4136	0	0	0	9	2.9	15.41	140

Physical Tests	Fuel(%)	Water(%) *	Water(ppm)*	Soot *	Glycol *	Viscosity Index
R10G003583	0	0	0.01	0.2	N	n/a
R10G013559	0	0	0.01	0.4	N	n/a
R10H008696	0	0	0.01	0.3	N	n/a
R10H014378	0	0	0.01	0.6	N	n/a
R10J002825	0	0	0.01	0.5	N	n/a

Physical Tests	Ox	NOx	Sulfur	4u	6u	14u	21u	38u	70u	ISO/NAS
R10G003583	4.8	6	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R10G013559	1.1	4.3	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R10H008696	8.8	2.7	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R10H014378	8.9	2.5	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R10J002825	8.4	8.4	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Recommendation/Corrective Action

R10G003583	1	NO CORRECTIVE ACTION NEEDED!
R10G013559	1	NO CORRECTIVE ACTION NEEDED!
R10H008696	1	NO CORRECTIVE ACTION NEEDED!
R10H014378	1	NO CORRECTIVE ACTION NEEDED!
R10J002825	1	NO CORRECTIVE ACTION NEEDED!

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1

ANA LABORATORIES, INC.

TEST REPORT

130-B Harding Ave, Bellmawr, New Jersey 08031-2409
(800) 648-2625 (856) 931-0011 Fax (856) 931-5205

Serving Customers Since 1973

User ID: AMTRAKFTX
History is for location: ALL
Lab #: R10J018135
Test Type:
Analyst: RBR

Company: AMTRAK
Location: FORT WORTH
Attention: TIM COOPER
Address: 400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202
Phone Number: (214)752-1167

Unit ID: 500
Unit Make:
Unit Model:
System ID: RAIL
System Make:
System Model:

Lab #	Sample Date	Process Date	Mile/Hr/Sys	Mile/Hr/Oil	Oil/Add	Oil/Drained	FF Fltr	BY Fltr
R10H014378	08/20/2010	08/26/2010	0 miles	0 miles	0	No	No	No
R10J002825	08/30/2010	09/07/2010	0 miles	0 miles	0	No	No	No
R10J002826	08/30/2010	09/07/2010	0 miles	0 miles	0	No	No	No
R10J010383	09/13/2010	09/17/2010	0 miles	0 miles	0	No	No	No
R10J018135	09/23/2010	09/30/2010	0 miles	0 miles	0	No	No	No

Metals (PPM) *	FE	CR	PB	CU	SN	AL	NI	AG	SI	B	NA	TI
R10H014378	9	1	1	1	0	2	1	0	4	5	5	0
R10J002825	4	0	0	1	0	2	0	0	2	4	4	0
R10J002826	6	0	1	0	0	2	0	0	2	5	4	0
R10J010383	5	0	1	2	0	2	0	0	2	4	4	0
R10J018135	8	0	0	0	0	3	0	0	0	5	5	0

Oil Quality	K*	V*	MO*	MG*	CA*	BA*	P*	ZN*	TBN *	TAN*	Visc@100C*	Visc@40C*
R10H014378	0	1	71	12	4463	2	53	1	8.7	1.2	15.33	139.3
R10J002825	1	0	58	9	4136	0	0	0	9	2.9	15.41	140
R10J002826	1	0	70	12	4442	0	0	0	8.4	2.6	15.36	155.3
R10J010383	2	0	63	11	4691	0	0	0	8.9	2.6	15.39	139.5
R10J018135	2	0	74	10	5247	0	0	0	6.7	1.3	15.41	133.3

Physical Tests	Fuel(%)	Water(%) *	Water(ppm)*	Soot *	Glycol *	Viscosity Index
R10H014378	0	0	0.01	0.6	N	n/a
R10J002825	0	0	0.01	0.5	N	n/a
R10J002826	0	0	0.01	0.6	N	n/a
R10J010383	0	0	0.01	0.5	N	n/a
R10J018135	0	0	0.01	0.5	N	n/a

Physical Tests	Ox	NOx	Sulfur	4u	6u	14u	21u	38u	70u	ISO/NAS
R10H014378	8.9	2.5	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R10J002825	8.4	8.4	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R10J002826	8.8	8.8	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R10J010383	8.9	9.2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R10J018135	9.9	9.4	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Recommendation/Corrective Action

R10H014378	1	NO CORRECTIVE ACTION NEEDED!
R10J002825	1	NO CORRECTIVE ACTION NEEDED!
R10J002826	1	NO CORRECTIVE ACTION NEEDED!
R10J010383	1	NO CORRECTIVE ACTION NEEDED!
R10J018135	1	NO CORRECTIVE ACTION NEEDED!

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Page 1 of 1 Pdf Email as PDF

1

ANA LABORATORIES, INC.

TEST REPORT

130-B Harding Ave, Bellmawr, New Jersey 08031-2409
(800) 648-2625 (856) 931-0011 Fax (856) 931-5205

Serving Customers Since 1973

User ID: AMTRAKFTX
History is for location: ALL
Lab #: R10L004236
Test Type:
Analyst: RBR

Company: AMTRAK
Location: FORT WORTH
Attention: TIM COOPER
Address: 400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202
Phone Number: (214)752-1167

Unit ID: 500
Unit Make:
Unit Model:
System ID: RAIL
System Make:
System Model:

Lab #	Sample Date	Process Date	Mile/Hr/Sys	Mile/Hr/Oil	Oil/Add	Oil/Drained	FF Fltr	BY Fltr
R10J018135	09/23/2010	09/30/2010	0 miles	0 miles	0	No	No	No
R10K004683	10/05/2010	10/08/2010	0 miles	0 miles	0	No	No	No
R10K010234	10/18/2010	10/18/2010	0 miles	0 miles	0	No	No	No
R10K018231	10/23/2010	10/28/2010	0 miles	0 miles	0	No	No	No
R10L004236	11/01/2010	11/05/2010	0 miles	0 miles	0	No	No	No

Metals (PPM) *	FE	CR	PB	CU	SN	AL	NI	AG	SI	B	NA	TI
R10J018135	8	0	0	0	0	3	0	0	0	5	5	0
R10K004683	23	0	2	4	0	7	0	0	12	8	7	0
R10K010234	10	0	2	1	0	2	0	0	1	1	4	0
R10K018231	12	0	1	1	0	2	0	0	11	4	4	0
R10L004236	11	0	0	1	0	2	0	0	3	3	5	0

Oil Quality	K*	V*	MO*	MG*	CA*	BA*	P*	ZN*	TBN *	TAN*	Visc@100C*	Visc@40C*
R10J018135	2	0	74	10	5247	0	0	0	6.7	1.3	15.41	133.3
R10K004683	8	0	79	22	5283	0	99	84	9	5.6	15.41	141.5
R10K010234	1	0	68	9	4297	0	33	0	7.9	3.4	15.33	138.7
R10K018231	1	1	79	13	4534	0	124	0	7.9	1.2	15.46	140.4
R10L004236	1	0	64	10	4344	0	29	2	7.5	4.5	15.37	139.1

Physical Tests	Fuel(%)	Water(%) *	Water(ppm)*	Soot *	Glycol *	Viscosity Index
R10J018135	0	0	0.01	0.5	N	n/a
R10K004683	0	0	0.01	0.7	N	n/a
R10K010234	0	0	0.01	0.8	N	n/a
R10K018231	0	0	0.01	0.5	N	n/a
R10L004236	0	0	0.01	0.6	N	n/a

Physical Tests	Ox	NOx	Sulfur	4u	6u	14u	21u	38u	70u	ISO/NAS
R10J018135	9.9	9.4	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R10K004683	13.4	11.6	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R10K010234	12	10.5	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R10K018231	10.6	9.3	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R10L004236	45.6	1.1	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Recommendation/Corrective Action

R10J018135	1	NO CORRECTIVE ACTION NEEDED!
R10K004683	1	NO CORRECTIVE ACTION NEEDED!
R10K010234	1	NO CORRECTIVE ACTION NEEDED!
R10K018231	1	NO CORRECTIVE ACTION NEEDED!
R10L004236	1	NO CORRECTIVE ACTION NEEDED!

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Page 1 of 1 Pdf Email as PDF

1

ANA LABORATORIES, INC.

TEST REPORT

130-B Harding Ave, Bellmawr, New Jersey 08031-2409
(800) 648-2625 (856) 931-0011 Fax (856) 931-5205

Serving Customers Since 1973

User ID: AMTRAKTX
History is for location: AMTRAKTX
Lab #: R10K010234

Test Type:
Analyst: RBR

Company: AMTRAK
Location: DALLAS
Attention: TIM COOPER
Address: 400 SOUTH HOUSTON ST.- STE. 100
DALLAS, TX 75202
Phone Number: (214)752-1167

Unit ID: 500
Unit Make:
Unit Model:
System ID: RAIL
System Make:
System Model:

Lab #	Sample Date	Process Date	Mile/Hr/Sys	Mile/Hr/Oil	Oil/Add	Oil/Drained	FF Fltr	BY Fltr
R10K010234	10/18/2010	10/18/2010	0 miles	0 miles	0	No	No	No

Metals (PPM) *	FE	CR	PB	CU	SN	AL	NI	AG	SI	B	NA	TI
R10K010234	10	0	2	1	0	2	0	0	1	1	4	0

Oil Quality	K*	V*	MO*	MG*	CA*	BA*	P*	ZN*	TBN *	TAN*	Visc@100C*	Visc@40C*
R10K010234	1	0	68	9	4297	0	33	0	7.9	3.4	15.33	138.7

Physical Tests	Fuel(%)	Water(%) *	Water(ppm)*	Soot *	Glycol *	Viscosity Index
R10K010234	0	0	0.01	0.8	N	n/a

Physical Tests	Ox	NOx	Sulfur	4u	6u	14u	21u	38u	70u	ISO/NAS
R10K010234	12	10.5	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Recommendation/Corrective Action

R10K010234 | NO CORRECTIVE ACTION NEEDED!

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Page 1 of 1 Pdf Email as PDF

1

ANA LABORATORIES, INC.

TEST REPORT

130-B Harding Ave, Bellmawr, New Jersey 08031-2409
(800) 648-2625 (856) 931-0011 Fax (856) 931-5205

Serving Customers Since 1973

User ID: AMTRAKFTX
History is for location: ALL
Lab #: R11C004847

Test Type:
Analyst: RBR

Company: AMTRAK
Location: FORT WORTH
Attention: TIM COOPER
Address: 400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202
Phone Number: (214)752-1167

Unit ID: 500
Unit Make:
Unit Model:
System ID: RAIL
System Make:
System Model:

Lab #	Sample Date	Process Date	Mile/Hr/Sys	Mile/Hr/Oil	Oil/Add	Oil/Drained	FF Fltr	BY Fltr
R10M008816	12/08/2010	12/13/2010	0 miles	0 miles	0	No	No	No
R10M018972	12/10/2010	12/29/2010	0 miles	0 miles	0	No	No	No
R11B000881	01/27/2011	02/01/2011	0 miles	0 miles	0	No	No	No
R11B019761	02/22/2011	02/25/2011	0 miles	0 miles	0	No	No	No
R11C004847	03/02/2011	03/07/2011	0 miles	0 miles	0	No	No	No

Metals (PPM) *	FE	CR	PB	CU	SN	AL	NI	AG	SI	B	NA	TI
R10M008816	4	0	1	2	0	2	0	0	0	1	4	0
R10M018972	3	0	0	1	0	2	0	0	5	0	6	0
R11B000881	6	0	0	1	0	3	0	0	3	0	6	0
R11B019761	6	0	0	0	0	2	0	0	6	0	5	0
R11C004847	7	0	0	0	0	1	0	0	4	0	4	0

Oil Quality	K*	V*	MO*	MG*	CA*	BA*	P*	ZN*	TBN *	TAN*	Visc@100C*	Visc@40C*
R10M008816	2	0	84	16	5521	0	42	6	15	3.3	15.22	137.8
R10M018972	2	0	79	15	5486	0	0	0	9.8	2.6	15.34	139.9
R11B000881	3	0	80	14	6531	0	3	0	8.6	2.8	14.98	153.5
R11B019761	2	0	60	6	4616	0	13	0	8.5	3.6	15.06	139.8
R11C004847	0	1	73	16	4837	0	0	0	9.3	3.1	15.21	138.5

Physical Tests	Fuel(%)	Water(%) *	Water(ppm)*	Soot *	Glycol *	Viscosity Index
R10M008816	0	0	0.01	0.3	N	n/a
R10M018972	0	0	0.01	0.3	N	n/a
R11B000881	0	0	0.01	0.3	N	n/a
R11B019761	0	0	0.01	0.6	N	n/a
R11C004847	0	0	0.01	0.2	N	n/a

Physical Tests	Ox	NOx	Sulfur	4u	6u	14u	21u	38u	70u	ISO/NAS
R10M008816	2	1.6	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R10M018972	2.2	1.2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R11B000881	2.6	1.7	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R11B019761	9.2	10.3	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R11C004847	8.7	9.2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Recommendation/Corrective Action

R10M008816	1	NO CORRECTIVE ACTION NEEDED!
R10M018972	1	NO CORRECTIVE ACTION NEEDED!
R11B000881	1	NO CORRECTIVE ACTION NEEDED!
R11B019761	1	NO CORRECTIVE ACTION NEEDED!
R11C004847	1	NO CORRECTIVE ACTION NEEDED!

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Page 1 of 1 Pdf Email as PDF

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1

ANA LABORATORIES, INC.

TEST REPORT

130-B Harding Ave, Bellmawr, New Jersey 08031-2409

(800) 648-2625 (856) 931-0011 Fax (856) 931-5205

Serving Customers Since 1973

User ID: AMTRAKFTX
History is for location: ALL
Lab #: R11E012255

Test Type:
Analyst: RBR

Company: AMTRAK
Location: FORT WORTH
Attention: TIM COOPER
Address: 400 SOUTH HOUSTON ST. - STE 100
DALLAS, TX 75202
Phone Number: (214)752-1167

Unit ID: 500
Unit Make:
Unit Model:
System ID: RAIL
System Make:
System Model:

Lab #	Sample Date	Process Date	Mile/Hr/Sys	Mile/Hr/Oil	Oil/Add	Oil/Drained	FF Fltr	BY Fltr
R11C004847	03/02/2011	03/07/2011	0 miles	0 miles	0	No	No	No
R11C013115	03/09/2011	03/17/2011	0 miles	0 miles	0	No	No	No
R11D018074	04/15/2011	04/26/2011	0 miles	0 miles	0	No	No	No
R11E001514	04/26/2011	05/03/2011	0 miles	0 miles	0	No	No	No
R11E012255	05/05/2011	05/17/2011	0 miles	0 miles	0	No	No	No

Metals (PPM) *	FE	CR	PB	CU	SN	AL	NI	AG	SI	B	NA	TI
R11C004847	7	0	0	0	0	1	0	0	4	0	4	0
R11C013115	9	0	0	1	0	2	0	0	7	1	4	0
R11D018074	3	0	0	0	0	3	0	0	5	0	6	0
R11E001514	4	0	0	0	0	2	0	0	14	0	5	0
R11E012255	4	0	0	0	0	2	0	0	3	0	5	0

Oil Quality	K*	V*	MO*	MG*	CA*	BA*	P*	ZN*	TBN *	TAN*	Visc@100C*	Visc@40C*
R11C004847	0	1	73	16	4837	0	0	0	9.3	3.1	15.21	138.5
R11C013115	2	0	77	9	4530	0	0	0	7	1	15.26	140.9
R11D018074	2	1	87	17	5725	0	0	6	8	2.1	15.04	133.4
R11E001514	4	0	104	17	4860	0	0	0	13.8	1.4	14.9	126.8
R11E012255	7	0	91	24	4676	0	0	6	8.1	2.3	14.81	136.4

Physical Tests	Fuel(%)	Water(%) *	Water(ppm)*	Soot *	Glycol *	Viscosity Index
R11C004847	0	0	0.01	0.2	N	n/a
R11C013115	0	0	0.01	0.3	N	n/a
R11D018074	0	0	0.01	0.3	N	n/a
R11E001514	0	0	0.01	0.3	N	n/a
R11E012255	0	0	0.01	0.4	N	n/a

Physical Tests	Ox	NOx	Sulfur	4u	6u	14u	21u	38u	70u	ISO/NAS
R11C004847	8.7	9.2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R11C013115	3.3	4.6	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R11D018074	1.8	3.6	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R11E001514	4.6	7.3	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R11E012255	4.6	8.4	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Recommendation/Corrective Action

R11C004847	NO CORRECTIVE ACTION NEEDED!
R11C013115	NO CORRECTIVE ACTION NEEDED!
R11D018074	NO CORRECTIVE ACTION NEEDED!
R11E001514	NO CORRECTIVE ACTION NEEDED!
R11E012255	NO CORRECTIVE ACTION NEEDED!

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Page 1 of 1 Pdf Email as PDF