

ANA LABORATORIES, INC.

130 Harding Avenue, Suite B, Bellmawr, NJ 08031

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

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

SAMPLE SEVERITY
N

SAMPLE DATA		ELEMENTAL ANALYSIS																OIL QUALITY																												
LAB #	DATE TAKEN/TESTED	HRS/MI OIL UNIT	VALUES EXPRESSED IN PARTS PER MILLION (PPM) BY WEIGHT																FUEL	VISCOSITY cSt @ 40C	VISCOSITY cSt @ 100C	WATER % by Volume	SOLIDS	GLYCOL																						
R09M017548	12/23/2009	0 M	Iron	3	Chromium	0	Lead	0	Copper	0	Tin	0	Aluminum	1	Nickel	0	Silver	0	Silicon	4	Boron	0	Sodium	6	Magnesium	18	Calcium	60	Barium	0	Phosphorus	0	Zinc	0	Titanium	0	Vanadium	0	Potassium	0	0.00	138.50	15.40	0.01	0.00	N
	12/28/2009	0 M																																												

LAB #	ADDITIONAL TESTS		NITRATION	SULFATE
	TBN Mg/G	Pentane Insolubles		
R09M017548	16.0	0.7	2.20	0.00

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

CLIENT: AMTRAK 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: 500
 System: RAIL
 Lubricant: 6R
 Id./Type: 500
 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./MIL 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	0.00	N
	3/12/2010	0 M																									

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

ANALYSIS RECOMMENDATIONS	
LAB #	R10C009153
NO CORRECTIVE ACTION NEEDED!	

CLIENT: AMTRAK 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: 500
 System: RAIL
 Lubricant: 6R

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	
R10C017331	3/18/2010	0 M	6	0	0	1	0	2	0	0	5	0	4	12	4592	0	0	0	0	0	1	1	0.00	15.15	0.00	0.00	0.00	N
	3/24/2010	0 M																										

ADDITIONAL TESTS			
LAB #	TBN Mg/G	Pentane Insolubles Mg/G	SULFATE
R10C017331	0.0	0.000	0.00

LAB # R10C017331
 ANALYSIS RECOMMENDATIONS: NO CORRECTIVE ACTION NEEDED!

CLIENT: AMTRAK CLIENT ID: AMTRAKFTX

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

Unit 500 System RAIL Lubricant 6R
 Id. / Type 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	
R10D005337	4/2/2010 4/9/2010	0 M 0 M	7	0	1	1	0	2	0	0	12	0	5	12	4314	0	22	0	0	0	1	1	0.00	15.39	0.00	0.00	0.00	N

ADDITIONAL TESTS			
LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles
R10D005337	0.0	0.0	0.000

ANALYSIS RECOMMENDATIONS			
LAB #	OXIDATION	NITRATION	SULFATE
R10D005337	0.00	0.00	0.00

CLIENT: AMTRAK

CLIENT ID: AMTRAKFTX

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 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: 500
 Id./Type: RAIL
 Make: Model:
 Lubricant: 6R
 System: RAIL
 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		
R10D006460	4/6/2010	0 M	3	0	2	0	0	1	0	0	0	0	0	5	3	4053	0	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

LAB #		ANALYSIS RECOMMENDATIONS	
R10D006460		NO CORRECTIVE ACTION NEEDED!	

CLIENT: AMTRAK CLIENT ID: AMTRAKFTX

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

Unit: 500
 System: RAIL
 Lubricant: 6R

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	
R10D013212	4/16/2010	0 M	8	0	0	1	0	2	0	0	2	0	6	11	3897	0	0	0	0	0	1	2	0.00	134.80	15.05	0.00	0.60	N
	4/23/2010	0 M																										

ADDITIONAL TESTS			
LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles
R10D013212	7.0	4.9	1.200

ANALYSIS RECOMMENDATIONS		
OXIDATION	NITRATION	SULFATE
15.40	4.20	12.30

ANALYSIS RECOMMENDATIONS	
R10D013212	NO CORRECTIVE ACTION NEEDED!

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Unit: 500
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 Model:

System: 6R
 Lubricant:

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	SOLDS	GLYCOL	
R10E000789	4/26/2010	0 M	12	0	1	2	0	3	0	0	10	0	8	11	4751	0	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
R10E000789	6.0	1.5	1.100

ADDITIONAL TESTS		
OXIDATION	NITRATION	SULFATE
6.60	6.60	5.30

ANALYSIS RECOMMENDATIONS	
R10E000789	NO CORRECTIVE ACTION NEEDED!

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 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	
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																										

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

LAB #	ANALYSIS RECOMMENDATIONS
R10E007828	NO CORRECTIVE ACTION NEEDED!

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 Make:
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Lubricant: 6R
 System: RAIL

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 est. @ 40C	VISCOSITY est. @ 100C	WATER % by volume	SOLDS	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	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

LAB #		ANALYSIS RECOMMENDATIONS	
R10F011423		NO CORRECTIVE ACTION NEEDED!	

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SAMPLE SEVERITY

Unit: 500
 Id. / Type: RAIL
 Make:
 Model:

Lubricant: 6R

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 6/25/2010	0 M 0 M	10	1	0	1	0	6	0	0	17	10	4	19	59	0	30	0	0	0	1	0.00	15.01	0.00	0.20		N

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

LAB #		ANALYSIS RECOMMENDATIONS	
R10F015803		NO CORRECTIVE ACTION NEEDED!	

CLIENT: AMTRAK CLIENT ID: AMTRAKFTX

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SAMPLE SEVERITY

N

Unit: 500
 System: RAIL
 Lubricant: 6R

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	0	1	0.00	134.80	14.97	0.00	0.20	N
R10F015803	7/7/2010	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	15.09	0.00	0.20	N	
R10F011423	6/25/2010	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	
R10E007828	6/17/2010	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				SULFATE	
LAB #	TBN Mg/G	TAN Mg/G	Pentane Insolubles	OXIDATION	NITRATION
R10G003583	9.0	0.7	1.300	4.80	6.00
R10F015803	9.0	1.1	0.000	0.00	0.00
R10F011423	10.0	0.7	1.200	5.10	6.90
R10E007828	7.0	0.9	1.300	1.40	2.50

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


CLIENT: AMTRAK CLIENT ID: AMTRAKFTX

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

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 ANSIC-ASQ National Accreditation Board/ACLASS Accreditation# AT-1471.

Recommendation/Corrective Action | NO CORRECTIVE ACTION NEEDED!

R10G009185	Physical Tests	OX	0	NOx	1.1	Sulfur	0	4e	n/a	6u	14u	21u	38u	70u	ISO/NAS										
R10G009185	Physical Tests	Fuel(%)	0	Water(%) *	0	Water(ppm) *	0.01	Soot *	0.1	Glycol *	N	Viscosity Index	n/a												
R10G009185	Oil Quality	K *	0	V *	1	MO *	75	MG *	10	CA *	4417	7	121	0	74	TAN *	0.7	15.1	Visc@100C *	137.3	Visc@40C *				
R10G009185	Metals (PPM) *	FE	7	CR	0	PB	2	CU	1	SN	0	AL	0	NI	1	AG	0	SI	3	B	7	NA	4	TI	0

ANA LABORATORIES, INC. TEST REPORT 130-B Harding Ave, Belmar, New Jersey 08031-2409 (800) 648-2625 (856) 931-0011 Fax (856) 931-5205		User ID: AMTRAKFTX Location: FORT WORTH Company: AMTRAK Unit ID: NOUNIT
		History is for location: AMTRAKFTX Attention: TIM COOPER Lab #: R10G009185 Address: 400 SOUTH HOUSTON ST - STE 100 DALLAS, TX 75202 System Make: System Model: Phone Number: (214)752-1167
Lab # R10G009185 Sample Date 07/16/2010 Process Date 07/16/2010 Mile/Hr/Sys 0 miles OH/Add 0 OH/Drained 0 FF Filtr No BY Filtr No	Serving Customers Since 1973	

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

LAB#	SAMP DT	PROC	DTE	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	4	12	4026	0	52	2	0	1	1	1
R10F014423	6/10/2010	6/17/2010	5	0	0	1	0	3	0	0	12	10	4	15	5728	0	0	0	0	1	1
R10F015803	6/29/2010	6/29/2010	10	1	0	1	0	6	0	0	17	10	4	19	5906	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	0M	0M	0Q	NO	NO	NO	15.17	130.6	0	0.01	0.01	0.5	N
R10F014423	0M	0M	0Q	NO	NO	NO	15.09	136.4	0	0.01	0.01	0.1	N
R10F015803	0M	0M	0Q	NO	NO	NO	15.01	N/A	0	0	0	0.2	N
R10G003583	0M	0M	0Q	NO	NO	NO	14.97	134.8	0	0.01	0.01	0.2	N
R10G013559	0M	0M	0Q	NO	NO	NO	15.22	137.1	0	0.01	0.01	0.4	N

ADDITIONAL TESTS

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
R10F014423	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
R10F014423	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: AMTRAKTX
 AMTRAK
 FORT WORTH
 400 SOUTH HOUSTON ST. - STE 100
 DALLAS, TX 75202
 TIM COOPER
 (214)752-1167

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

Company: AMTRAK
 Unit ID: 500
 Location: FORT WORTH
 Attention: TIM COOPER
 Address: 400 SOUTH HOUSTON ST -
 STE 100
 DALLAS, TX 75202
 Phone Number: (214)752-1167

User ID: AMTRAKFTX
 History is for location: ALL
 Lab #: R10J002825

Test Type: RBR
 Analyst: RBR

Sample Date: 06/30/2010
 Process Date: 07/07/2010
 Mile/Hr/Sys: 0 miles
 Mile/Hr/Oh: 0 miles
 Oh/Add: 0
 Oh/Drained: 0
 FF Ftr: No
 BY Ftr: No

Lab #	Sample Date	Process Date	Mile/Hr/Sys	Mile/Hr/Oh	Oh/Add	Oh/Drained	FF Ftr	BY Ftr				
R10J002825	08/30/2010	09/07/2010	0 miles	0 miles	0	0	No	No				
R10H014378	08/20/2010	08/26/2010	0 miles	0 miles	0	0	No	No				
R10H008696	08/10/2010	08/16/2010	0 miles	0 miles	0	0	No	No				
R10G013559	07/20/2010	07/23/2010	0 miles	0 miles	0	0	No	No				
R10G003583	06/30/2010	07/07/2010	0 miles	0 miles	0	0	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
OH Quality	K ⁺	V ⁺	MO ⁺	MG ⁺	CA ⁺	BA ⁺	PA ⁺	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	4H	6H	14H	21H	38H	70H	ISO/NAS		
R10G003583	4.8	6	0	n/a	n/a	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	n/a	n/a
R10H008696	8.8	2.7	0	n/a	n/a	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	n/a	n/a
R10J002825	8.4	8.4	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Recommendation/Corrective Action												
R10G003583	NO CORRECTIVE ACTION NEEDED											
R10G013559	NO CORRECTIVE ACTION NEEDED											
R10H008696	NO CORRECTIVE ACTION NEEDED											
R10H014378	NO CORRECTIVE ACTION NEEDED											
R10J002825	NO CORRECTIVE ACTION NEEDED											

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

Metals (PPM) *	FE	CR	PB	CU	SN	AL	NI	AG	SI	B	NA	J1
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 *	Clycol *	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	NON	Sulfur	du	su	14u	21u	38u	70u	ISO/NAAS
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

Recommendaion/Corrective Action	1	2	3	4	5	6	7	8	9	10
R10H014378	1									
R10J002825	1									
R10J002826	1									
R10J010383	1									
R10J018135	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	1	User ID: AMTRAKPTX History is for location: ALL Lab #: R10J018135
		Test Type: DALLAS, TX 75202 STE 100 Address: 400 SOUTH HOUSTON ST. Attention: TIM COOPER Location: FORT WORTH Unit Make: Unit ID: 500
System Make: System Model: Phone Number: (214)752-1167	System ID: RALL Unit Model: System Model:	Analyst: RBR

ANA LABORATORIES, INC.
TEST REPORT

130-B Harding Ave, Bellmawr, New Jersey 08031-2409
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User ID: AMTRAKFTX
History is for location: ALL
Lab #: R10L004236

Company: AMTRAK
Unit ID: 500
Location: FORT WORTH
Attention: TIM COOPER
Address: 400 SOUTH HOUSTON ST. -
STE 100
DALLAS, TX 75202

Test Type: RBR
Analys: RBR
Phone Number: (214)752-1167
System Make:
System Model:

Sample Date: 09/23/2010
Process Date: 09/23/2010
Mile/Hr/Sys: 0 miles
Oil/Ad: 0 miles
Oil/Ad: 0 miles
FF Ftr: 0 miles
BY Ftr: 0 miles

Lab #	Sample Date	Process Date	Mile/Hr/Sys	Oil/Ad	Oil/Ad	FF Ftr	BY Ftr
R10L004236	11/01/2010	11/05/2010	0 miles	0 miles	0 miles	No	No
R10K018231	10/23/2010	10/28/2010	0 miles	0 miles	0 miles	No	No
R10K010234	10/18/2010	10/18/2010	0 miles	0 miles	0 miles	No	No
R10K004683	10/05/2010	10/08/2010	0 miles	0 miles	0 miles	No	No
R10J018135	09/23/2010	09/30/2010	0 miles	0 miles	0 miles	No	No
Metas (P/M) *	RE	CR	PI	CU	SN	AL	MI
	AG	SI	B	NA	TI		
R10J018135	8	0	0	3	0	0	0
R10K004683	23	0	2	4	0	7	0
R10K010234	10	0	2	1	0	2	0
R10K018231	12	0	1	1	0	2	0
R10L004236	11	0	0	1	0	2	0
Oil Quality	K*	V*	MQ*	MG*	CA*	BA*	P*
	ZN*	TBN*	TAN*	Visc@100C*	Visc@40C*		
R10J018135	2	0	74	10	5247	0	0
R10K004683	8	0	79	22	5283	0	99
R10K010234	1	0	68	9	4297	0	33
R10K018231	1	1	79	13	4534	0	124
R10L004236	1	0	64	10	4344	0	29
Physical Tests	Fuel (%)	Water (%) *	Water (ppm) *	Score *	(C)ycl *	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
	70u	ISO/NAS					
R10J018135	9.9	9.4	0	n/a	n/a	n/a	n/a
R10K004683	13.4	11.6	0	n/a	n/a	n/a	n/a
R10K010234	12	10.5	0	n/a	n/a	n/a	n/a
R10K018231	10.6	9.3	0	n/a	n/a	n/a	n/a
R10L004236	45.6	1.1	0	n/a	n/a	n/a	n/a
Recommendation/Corrective Action							
R10J018135	1						
R10K004683	1						
R10K010234	1						
R10K018231	1						
R10L004236	1						

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R10K010234 | NO CORRECTIVE ACTION NEEDED
 Recommendation/Corrective Action

Lab #	Sample Date	Process Date	Mile/Hr/Sys	Mile/Hr/Oh	OH/ADD	OH/D/CR	FF Filt	BY Filt	No
R10K010234	10/18/2010	10/18/2010	0 miles	0 miles	0	No	No	No	138.7
OH Quality	K ⁺ V ⁻	MO ⁺ MG ⁺ CA ⁺	BA ⁺ P ⁺	ZN ⁺ TBN ⁺	TAN ⁺	Visc@100C ⁺	Visc@40C ⁺		
	1	0	68	9	4297	0	33	0	7.9
	3.4	15.33							
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	du	6u	14u	21u	38u	70u
R10K010234	12	10.5	0	n/a	n/a	n/a	n/a	n/a	n/a
									ISO/NAS

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		Test Type: Analyst: RBR System Make: System Model: Phone Number: (214)752-1167
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Lab #	Sample Date	Process Date	Mile/Hr/Sys	Mile/Hr/Oil	Oil/Add	Oil/Drained	FF Filt	BY Filt			
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	0	0	0	1	4	0
R10M018972	3	0	1	0	2	0	0	5	0	6	0
R11B000881	6	0	1	0	3	0	0	3	0	6	0
R11B019761	6	0	0	0	2	0	0	6	0	5	0
R11C004847	7	0	0	1	1	0	0	4	0	4	0
OH Quality	Kc	Vs	MO	MG	CA	BA	ZN	TBN	TAN	Visc@100C	Visc@40C
R10M008816	2	0	84	16	5521	0	42	6	15	3.3	15.22
R10M018972	2	0	79	15	5486	0	0	0	9.8	2.6	15.34
R11B000881	3	0	80	14	6531	0	3	0	8.6	2.8	14.98
R11B019761	2	0	60	6	4616	0	13	0	8.5	3.6	15.06
R11C004847	0	1	73	16	4837	0	0	0	9.3	3.1	15.21
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	0.6	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	NO CORRECTIVE ACTION NEEDED!										
R10M018972	NO CORRECTIVE ACTION NEEDED!										
R11B000881	NO CORRECTIVE ACTION NEEDED!										
R11B019761	NO CORRECTIVE ACTION NEEDED!										
R11C004847	NO CORRECTIVE ACTION NEEDED!										

	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	Company: AMTRAK Location: FORT WORTH Attention: TIM COOPER Address: 400 SOUTH HOUSTON ST. - STE 100 DALLAS, TX 75202 System Make: System Model:	

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Lab #	Sample Date	Process Date	Mile/Hr/Sys	Mile/Hr/Oil	Oil/Add	Oil/Drained	FF Filter	BY Filter
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	TI
R11E012255	4	0	0	0	0	2	0	0	3	0	5
R11E001514	4	0	0	0	0	2	0	0	14	0	5
R11D018074	3	0	0	0	0	3	0	0	5	0	6
R11C013115	9	0	1	0	2	0	0	0	4	1	4
R11C004847	7	0	0	1	0	1	0	0	4	0	4
R11C013115	0	1	73	16	4837	0	0	9.3	3.1	15.21	138.5
R11C004847	0	0	77	9	4530	0	0	7	1	15.26	140.9
R11D018074	2	1	87	17	5725	0	0	6	8	15.04	133.4
R11E001514	4	0	104	17	4860	0	0	0	1.4	14.9	126.8
R11E012255	7	0	91	24	4676	0	6	8.1	2.3	14.81	136.4

OH Quality	K*	V*	MO*	MG*	CA*	BA*	PA*	ZN*	TBN*	TAN*	Visc@100C*	Visc@40C*
R11E012255	0	0	0	0	0	0	2	0	0	3	0	5
R11E001514	4	0	0	0	0	0	2	0	0	14	0	5
R11D018074	3	0	0	0	0	0	3	0	0	5	0	6
R11C013115	9	0	1	0	1	0	2	0	0	4	1	4
R11C004847	7	0	0	1	0	1	0	0	0	4	0	4
R11C013115	0	1	73	16	4837	0	0	9.3	3.1	15.21	138.5	
R11C004847	0	0	77	9	4530	0	0	7	1	15.26	140.9	
R11D018074	2	1	87	17	5725	0	0	6	8	15.04	133.4	
R11E001514	4	0	104	17	4860	0	0	0	1.4	14.9	126.8	
R11E012255	7	0	91	24	4676	0	6	8.1	2.3	14.81	136.4	

Physical Tests	Fuel(%)	Water(%) *	Water(ppm) *	Soot *	Glycol *	Viscosity Index
R11E012255	0	0	0.01	0.4	N	n/a
R11E001514	0	0	0.01	0.3	N	n/a
R11D018074	0	0	0.01	0.3	N	n/a
R11C013115	0	0	0.01	0.3	N	n/a
R11C004847	0	0	0.01	0.2	N	n/a
R11C013115	0	0	0.01	0.3	N	n/a
R11C004847	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
R11E012255	4.6	8.4	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
R11D018074	1.8	3.6	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
R11C004847	8.7	9.2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R11C013115	0	0	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R11C004847	0	0	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R11D018074	0	0	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R11E001514	0	0	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R11E012255	0	0	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Recommendation/Corrective Action	R11E012255	R11E001514	R11D018074	R11C013115	R11C004847
R11C004847	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED
R11C013115	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED
R11D018074	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED
R11E001514	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED
R11E012255	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED	NO CORRECTIVE ACTION NEEDED

ANA LABORATORIES, INC. TEST REPORT 130-B Harding Ave, Bellmawr, New Jersey 08031-2409 (800) 648-2625 (856) 931-0011 Fax (856) 931-5205		User ID: AMTRAKFTX History is for location: ALL Lab #: R11E012255
		Test Type: RBR Analysis: RBR Company: AMTRAK Unit ID: 500 Location: FORT WORTH Attention: TIM COOPER Address: 400 SOUTH HOUSTON ST - System ID: RAIL System Make: DALLAS, TX 75202 STE 100 Phone Number: (214)752-1167 System Model: