



Locomotive Unit
TCRY 34
Part 1

Locomotive Horn Test Form
CFR 229.129

Loco Initials Unit Number

TLRY 34

Weather Before Test

Temperature 50

Wind speed 10

Relative Humidity 63

Sensor Reader's Name

Test Date 3-11-16

Horn Operator's Name

Beginning Time 1100

Ending Time 1120

Weather After Test

Temperature 48

Wind Speed 10

Relative Humidity 66

Calibrate the meter before test? YES

Calibrate the meter after test? YES

Test Results for Sensor in Front of F end of Locomotive

Background Noise F end 69.3

1st 10 sec reading F end 105.5

2nd 10 sec reading F end 105.8

3rd 10 sec reading F end 105.6

4th 10 sec reading F end 105.7

5th 10 sec reading F end 105.6

6th 10 sec reading F end 105.7

Average Reading F end 105.65

Standard Deviation F end .3

Background Noise F end 68.5

Test Parameters

Calibrate Instrument before & after test

Background noise 10 dba horn

Standard Deviation 1.5 dba

SPL 96 to 110 dba - Leg

Temperature (32 to 104 F)

Wind Speed (12 mph)

Relative Humidity (20 to 95%)

No Precipitation Present

Sensor 15ft above the rail

Run yesterdays weather

A Scale - Slow - Leg

Windscreen must be used

6 - 10 second readings in each direction

100 ft in front of the locomotive knuckle

Test Results for Sensor Behind Locomotive

Background Noise B end 68.1

1st 10 sec reading B end 98.9

2nd 10 sec reading B end 99.5

3rd 10 sec reading B end 99

4th 10 sec reading B end 99.1

5th 10 sec reading B end 98.9

6th 10 sec reading B end 98.5

Average Reading B end 98.98

Standard Deviation B end 1.4

Background Noise B end 74.5



CONTACT INFORMATION	
PHONE:	
FAX:	

EQUIPMENT	
CUSTOMER EQUIP NUM :	34
SERIAL NUMBER :	34_H510
MODEL :	SD40_EMP
MANUFACTURER :	EMP
COMPANY NAME :	TRI CITY & OLYMPIA RAIL ROAD
JOB SITE :	
AREA :	
REGION :	

SAMPLE INFORMATION	
COMPARTMENT NAME :	ENGINE
COMP SERIAL NUM :	
COMPARTMENT MODEL :	
LABEL# :	
SHOP JOB NUM :	
SAMPLE TYPE :	OIL
SAMPLE SHIP TIME (days) :	7
SAMPLE LOCATION :	

Interp By: Shellie C Kent

Monitor Compartment

NORMAL WEAR METAL READINGS. SAMPLE TESTED POSITIVE FOR WATER WITH ADDITIONAL TEST. SUGGEST FINDING SOURCE OF WATER ENTRY ANND REPAIR. AFTER REPAIR CONTINUE TO MONITOR. CHANGE THE OIL AND FILTERS IF NOT ALREADY DONE. RESAMPLE AT HALF THE NORMAL INTERVAL TO CONFIRM AND ESTABLISH TREND.

LAB #

H510-47073-0032

PROCESS: 14-Mar-17

DATE

WEAR/CONTAMINATION - ADDITIVES/FORMULATION																												
SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	Ba	B
07-Mar-17	H510-47073-0032	0	0	N			5	21	1	2	6	2	5	23	0	111	0	0	0	0	0	0	4965	59	31	21	0	9
12-Sep-16	H510-46258-0031	0	0	N			4	17	1	2	5	2	3	22	6	103	0	0	0	0	0	0	4965	41	17	15	0	5
12-May-16	H510-46137-0064	0	0	N			6	18	0	1	4	1	3	20	4	112	0	0	0	0	0	0	5291	87	77	33	0	23
25-Jan-16	H510-46027-0048	0	0	N			7	21	1	2	6	2	4	18	3	101	0	0	0	0	0	0	5205	38	13	16	0	2

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION																			
SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	V100	ST	OXI	SUL	NIT	W	A	F	PFc	
07-Mar-17	H510-47073-0032	0	0	76_LUBR	UNKNOWN	40	N			10.0	18	11	17	14	P	N	N	1.13	
12-Sep-16	H510-46258-0031	0	0	76_LUBR	UNKNOWN	40	N			13.3	16	9	20	10	N	N	N	0.25	
12-May-16	H510-46137-0064	0	0	76_LUBR	UNKNOWN	40	N			15.2	16	9	20	10	N	N	N	0	
25-Jan-16	H510-46027-0048	0	0	CHEVRON	UNKNOWN	40	N			14.9	19	9	21	10	N	N	N	0	

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, W = Water, Zn = Zinc

CONTACT INFORMATION	EQUIPMENT	SAMPLE INFORMATION
PHONE: FAX: Email:	CUSTOMER EQUIP NUM : 34 SERIAL NUMBER : 34_H510 MODEL : SD40_EMP MANUFACTURER : EMP COMPANY NAME : TRI CITY & OLYMPIA RAIL ROAD JOB SITE : AREA: REGION:	COMPARTMENT NAME : ENGINE COMP SERIAL NUM : COMPARTMENT MODEL : LABEL#: SHOP JOB NUM : SAMPLE TYPE: OIL SAMPLE SHIP TIME (days) : 4 SAMPLE LOCATION :

No Action Required

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

LAB #
H510-46137-0064

WEAR/CONTAMINATION - ADDITIVES/FORMULATION																												
SAMPLE DATE	SAMPLE ID	METER	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	Ba	B
12-May-16	H510-46137-0064	0	0	N		NAR	6	18	0	1	4	1	3	20	4	112	0	0	0	0	0	0	5291	87	77	33	0	23
25-Jan-16	H510-46027-0048	0	0	N		NAR	7	21	1	2	6	2	4	18	3	101	0	0	0	0	0	0	5205	38	13	16	0	2
19-Mar-15	H510-45086-0023	0	0	N		NAR	10	28	1	3	7	4	4	12	5	138	1	0	0	0	1	0	6627	79	96	35	0	6
16-Sep-14	H510-44259-0117	0	0	N	N	NAR	8	36	0	2	8	3	5	20	3	130	1	0					6668	118	128	32	0	

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION																		
SAMPLE DATE	SAMPLE ID	METER	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	V100	ST	OXI	SUL	NIT	W	A	F	PFc
12-May-16	H510-46137-0064	0	0	76 LUBR	UNKNOWN	40	N		NAR	15.2	16	9	20	10	N	N	N	0
25-Jan-16	H510-46027-0048	0	0	CHEVRON	UNKNOWN	40	N		NAR	14.9	19	9	21	10	N	N	N	0
19-Mar-15	H510-45086-0023	0	0	CHEVRON	UNKNOWN	40	N		NAR	14.6	23	10	23	12	N	N	N	
16-Sep-14	H510-44259-0117	0	0	CHEVRON	UNKNOWN	15W-40	N	N	NAR	14.8	26	11	25	13	Negativ	N/A	N/A	

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, W = Water, Zn = Zinc



WESTERN STATES EQUIPMENT , 400 East Overland Road, Meridian , ID,83642, US

PHONE: 208-884-2214

Email: oillab@wseco.com , Web: westernstatescat.com

CONTACT INFORMATION

PHONE:
FAX:
Email:

EQUIPMENT

CUSTOMER EQUIP NUM : 34
SERIAL NUMBER : 34_H510
MODEL : SD40_EMP
MANUFACTURER : EMP
COMPANY NAME : TRI CITY & OLYMPIA RAIL ROAD
JOB SITE :
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
COMP SERIAL NUM :
COMPARTMENT MODEL :
LABEL#:
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 2

**No Action
Required**

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

LAB #
H510-46027-0048

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	Ba	B
25-Jan-16	H510-46027-0048	0	0	N		NAR	7	21	1	2	6	2	4	18	3	101	0	0	0	0	0	0	5205	38	13	16	0	2
19-Mar-15	H510-45086-0023	0	0	N		NAR	10	28	1	3	7	4	4	12	5	138	1	0	0	0	1	0	6627	79	96	35	0	6
16-Sep-14	H510-44259-0117	0	0	N	N	NAR	8	36	0	2	8	3	5	20	3	130	1	0					6668	118	128	32	0	
31-Jan-14	H510-44031-0135	0	0	N	N	NAR	18	48	1	4	9	4	4	15	5	124	1	0					6174	11	18	18	0	

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	Fluid Brand	FLUID TYPE	Fluid Weight	FLUID CHANGE	FILTER CHANGE	OVERALL EVAL	V100	ST	OXI	SUL	NIT	W	A	F	PFc
25-Jan-16	H510-46027-0048	CHEVRON	UNKNOWN	40	N		NAR	14.9	19	9	21	10	N	N	N	0
19-Mar-15	H510-45086-0023	CHEVRON	UNKNOWN	40	N		NAR	14.6	23	10	23	12	N	N	N	
16-Sep-14	H510-44259-0117	CHEVRON	UNKNOWN	15W-40	N	N	NAR	14.8	26	11	25	13	Negativ	N/A	N/A	
31-Jan-14	H510-44031-0135	CHEVRON	UNKNOWN	40	N	N	NAR	12.3	29	11	26	13	Negativ	N/A	N/A	

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Mg = Magnesium, Mo = Molybdenum, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin.

V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PQI = Particle Quantifying index, NaW = Salt Water, FL Pt = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece or a component thereof.



U.S. Department of Transportation
Federal Railroad Administration

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Locomotive Inspection and Repair Record

OMB No.2130-0004

Year: 2017	1. Operated by: Tri-city & Olympia RR	RR Code: TCRY	2. Owned by: Tri-city RR	RR Code: TCRY
3. Model No. SD40-2	4. Loco No. 34	If renumbered, Prev. No. UP 3075	5. Year Built 1975	Check if new loco. <input type="checkbox"/>
6. Propelled by: D-E	7. Horsepower 3000	8. Type of Service: Road <input checked="" type="checkbox"/> Yard <input type="checkbox"/> Other <input type="checkbox"/>	9. Steam Gen. a. No.: N/A	b. Working Pressure N/A
10. Max. Piston Travel 8 in.	Type of Air Brake: 26-L	Air Dryer Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	11. Out of use Credit: 275	12. Last Periodic Inspection
a. Date 3-9-16	b. Place Richland, WA	AFM CAL. 229.29(b)	92 day max. interval N/A	Previous date:
Date & cert:	Date & cert:	Date & cert:	Date & cert:	Date & cert:
PERIODIC INSPECTIONS Check one: <input type="checkbox"/> 92 days per 229.23(a) <input type="checkbox"/> 184 days per 229.23(b)(1) only				
13. Date: Mo/Day/Yr	14. Place	15. Items*	16. Person Conducting	15. Items*
16. Person Conducting	17. Certified by			
Out of Service 1/1/17 to 3-29-17 (117 days)	Richland, WA		Jose Romero	
Out of Service 3/29/17 to 5/14/17 (34 days)	Richland, WA		Boris Vlačo	
Out of Service 5-18-17 thru 12-31-18 (627 days)	Richland, WA		Jose Romero	
* 15. Item Code: 1. Brakes 2. Running Gear 3. Cab Equip 4. Mech Equip 5. Elect Equip 6. Steam Gen 7. Safety Appl				
TESTS	18. H&H Test Pressure Drilled	19. Waiver Part 229	20. Waiver - Other	
Type	Interval Not more than:	21. Person Conducting	22. Test Date & Place	23. Certified by
24. Previous Test Date & Place				
Event Recorder 229.25(d) or 229.27(c)	No. of days:	N/A		
Annual Tests 229.27	368 days			Richland, WA 3-9-16
Hand Brake 232.105(c)	368 days	Boris Vlačo	Richland, WA 3-9-17	Jose Romero
Air Brakes: Level 1 229.29(c)(1)	368 days			Richland, WA 3-9-16
Level 2 229.29(c)(2)	No. of days:	N/A		
Level 3 229.29(c)(3)	No. of days: 1104			Richland, WA 3-9-16
Hammer and Hydro 229.31	736 days			

In accordance with the Locomotive Inspection Act, 49 USC Chapter 207 and the regulations issued pursuant to that Act, the parts and appurtenances of the locomotive unit have been inspected and all defects disclosed by the inspection have been properly repaired.

Certification of true copy: I certify that this is a true copy of the inspection and repair record of locomotive no. 34
Attention: A false entry on this form is punishable by fine or imprisonment (18 USC Sec1001)

Officer-in-charge Jose Romero Date 3-29-17

INSTRUCTIONS: This Locomotive Inspection and Repair Record (Record or F6180-49A) covers a calendar year, except as noted. The Record for the preceding calendar year shall be retained in the locomotive until the first periodic inspection of the new year or, until the Record is replaced on April 2 or July 3 (if 184 day eligible) as required by 49 CFR 229.23(f) or, until the locomotive changes ownership (see 2 below.) Enter the requested information in each block. Special instructions are given below.

1. **OPERATED BY:** Enter the name and code of the primary railroad operating the locomotive at the time this Record is placed in it. Operator changes, including dates, shall be noted in "Remarks." The "RR Code" is as assigned by FRA to the railroad.
2. **OWNER:** Enter the name and RR Code of the owner. Changes in ownership shall be submitted as final reports.
3. **LOCOMOTIVE NO.:** Enter digits only. Include letters if they differ from the "RR Code." If renumbered, enter the previous number.
4. **YEAR BUILT:** Enter the year the locomotive was built and check if new. If remanufactured per 49 CFR 229.5, enter "RM" and the year.
5. **PROPELLED BY:** Enter Diesel-Electric (D-E), Electric (E), Electric Multiple Unit (MU), Diesel Multiple Unit (DMU), MU Control Cab (MUC), Non-MU Control Cab (NMUC), Turbine (T), Torque Converter (TC), or Other (O).
6. **MAXIMUM PISTON TRAVEL:** Enter only "nominal" travel. Do not include the manufacturer's tolerance.
7. **OUT-OF-USE CREDIT:** Enter the number of creditable calendar days the locomotive was out-of-use since the last periodic inspection on the previous F6180-49A. Less than 30 consecutive calendar days for any out-of-use period may not be counted per 49 CFR 229.33. For current periods out-of-use, an entry "Out-of-use from _____ to _____" shall be made on a Periodic Inspection line and certified when a locomotive which would otherwise be due for inspection is out-of-use. If the locomotive is out of use at the end of the annual reporting period, complete the "To" entry with the last day of the period. An entry shall then be made on the new Record showing the first day of the new reporting period as the "From" date.
8. **LAST PERIODIC INSPECTION:** When a new Record is placed in the locomotive transfer the last periodic inspection information into block 12 a & b and the last test information into column 24 of the new Record. Tests that are not applicable should be noted "NA".
9. **AFM CAL.:** Enter the date of the last Air Flow Method Indicator (AFM) calibration from the previous year. Enter and certify subsequent calibrations as they are done.
10. **PERIODIC INSPECTIONS:** Check 184 days *only* if the locomotive qualifies per 49 CFR 229.23(b)(1) and the railroad chooses to abide by the requirement for 33 day QMI Daily inspections, otherwise check 92 days. Persons making the required inspections shall sign and list the item codes inspected. The employee's supervisor shall certify that the inspections were completed.
11. **H&H:** Enter the test pressure for the hydrostatic air reservoir test. If the reservoirs are drilled, enter "NA" here and "Drilled" in the Hammer and Hydro line below.
12. **WAIVERS:** Any waiver applicable to this locomotive shall be entered by waiver number in block 19 if a waiver from Part 229, or block 20, if a waiver from any other regulation. Enter explanatory information regarding the scope and content of each waiver under "Remarks".
13. **TESTS:** The maximum number of days for Event Recorder, Level 2 and Level 3 air brake tests shall be entered per the referenced sections of 49 CFR 229. Where the railroad has chosen to fragment air brake clean, repair and test requirements as permitted under 49 CFR 229.29, a separate air record shall be maintained in the cab of the locomotive and the word "Fragmented" shall be entered in the Level 2 and Level 3 lines.

REPAIRS: Special notes relating to repairs performed to restore compliance.

NOISE: Enter any noise tests or related information in accordance with 49 CFR 210.31.

REMARKS: Additional explanatory or clarifying information.

Public reporting burden for this collection of information is estimated to average 15 minutes per response including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. All responses to this collection of information are mandatory. A federal agency may not conduct or sponsor, and a person is not required to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unless that collection of information displays a current OMB Number. The OMB control number for this information is 2130-0004. Anyone with comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden, may send them to: Information Clearance Officer, Federal Railroad Administration, 1200 New Jersey Ave. SE, MS-25, Washington, DC 20590



Locomotive Inspection and Repair Record

U.S. Department of Transportation
Federal Railroad Administration

See reverse for Paperwork Reduction Act Statement

OMB No. 2130-0004

Year: 2017	1. Operated by: Tri-city & Olympia RR	RR Code: TCRY	2. Owned by: Tri-city RR	RR Code: TCRY
3. Model No. SD40-2	4. Loco No. 34	If renumbered, Prev. No. UP 3075	5. Year Built 1975	Check if new loco. <input type="checkbox"/>
6. Propelled by: D-E	7. Horsepower 3000	8. Type of Service: Road <input checked="" type="checkbox"/> Yard <input type="checkbox"/> Other <input type="checkbox"/>	9. Steam Gen. a. No.: N/A	b. Working Pressure N/A
Type of Air Brake: 26-L	Air Dryer Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	11. Out of use Credit: 275	12. Last Periodic Inspection 3-9-16	a. Date 3-9-16
AFM CAL. 229.29(b)	92 day max. interval N/A	Previous date:	Date & Cert:	Date & cert:
PERIODIC INSPECTIONS				
Check one: <input type="checkbox"/> 92 days per 229.23(a) <input type="checkbox"/> 184 days per 229.23(b)(1) only				
13. Date: Mo/Day/Yr	14. Place	15. Items*	16. Person Conducting	17. Certified by
out of service	Richland, WA	1/1/17 to 3-29-17 (117 days)	Jose Romero	Jose Romero
* 15. Item Code: 1. Brakes 2. Running Gear 3. Cab Equip 4. Mech Equip 5. Elect Equip 6. Steam Gen 7. Safety Appl				
TESTS		18. H&H Test Pressure Dritted	19. Waiver Part 229	20. Waiver - Other
Type	Interval Not more than:	21. Person Conducting	22. Test Date & Place	23. Certified by
Event Recorder 229.25(d) or 229.27(c)	No. of days:	N/A		
Annual Tests 229.27	368 days			Richland, WA 3-9-16
Hand Brake 232.105(e)	368 days	Boris Vlačo	Richland, WA 3-9-17	Jose Romero Richland, WA 3-9-16
Air Brakes: Level 1 229.29(c)(1)	368 days			Richland, WA 3-9-16
Level 2 229.29(c)(2)	No. of days:	N/A		
Level 3 229.29(c)(3)	No. of days: 1104			Richland, WA 3-9-16
Hammer and Hydro 229.31	736 days			

In accordance with the Locomotive Inspection Act, 49 USC Chapter 207 and the regulations issued pursuant to that Act, the parts and appurtenances of the locomotive unit have been inspected and all defects disclosed by the inspection have been properly repaired.

Certification of true copy: I certify that this is a true copy of the inspection and repair record of locomotive no. 34
Attention: A false entry on this form is punishable by fine or imprisonment (18 USC Sec 1001)

Officer-in-charge Jose Romero Date 3-29-17

INSTRUCTIONS: This Locomotive Inspection and Repair Record (Record or F6180-49A) covers a calendar year, except as noted. The Record for the preceding calendar year shall be retained in the locomotive until the first periodic inspection of the new year or, until the Record is replaced on April 2 or July 3 (if 184 day eligible) as required by 49 CFR 229.23(f) or, until the locomotive changes ownership (see 2 below.) Enter the requested information in each block. Special instructions are given below.

1. **OPERATED BY:** Enter the name and code of the primary railroad operating the locomotive at the time this Record is placed in it. Operator changes, including dates, shall be noted in "Remarks." The "RR Code" is as assigned by FRA to the railroad.
2. **OWNER:** Enter the name and RR Code of the owner. Changes in ownership shall be submitted as final reports.
3. **LOCOMOTIVE NO.:** Enter digits only. Include letters if they differ from the "RR Code." If renumbered, enter the previous number.
4. **YEAR BUILT:** Enter the year the locomotive was built and check if new. If remanufactured per 49 CFR 229.5, enter "RM" and the year.
5. **PROPELLED BY:** Enter Diesel-Electric (D-E), Electric (E), Electric Multiple Unit (MU), Diesel Multiple Unit (DMU), MU Control Cab (MUC), Non-MU Control Cab (NMUC), Turbine (T), Torque Converter (TC), or Other (O).
6. **MAXIMUM PISTON TRAVEL:** Enter only "nominal" travel. Do not include the manufacturer's tolerance.
7. **OUT-OF-USE CREDIT:** Enter the number of creditable calendar days the locomotive was out-of use since the last periodic inspection on the previous F6180-49A. Less than 30 consecutive calendar days for any out-of-use period may not be counted per 49 CFR 229.33. For current periods out-of-use, an entry "Out-of-use from _____ to _____" shall be made on a Periodic Inspection line and certified when a locomotive which would otherwise be due for inspection is out-of-use. If the locomotive is out of use at the end of the annual reporting period, complete the "To" entry with the last day of the period. An entry shall then be made on the new Record showing the first day of the new reporting period as the "From" date.
8. **LAST PERIODIC INSPECTION:** When a new Record is placed in the locomotive transfer the last periodic inspection information into block 12 a & b and the last test information into column 24 of the new Record. Tests that are not applicable should be noted "NA".
9. **AFM CAL.:** Enter the date of the last Air Flow Method Indicator (AFM) calibration from the previous year. Enter and certify subsequent calibrations as they are done.
10. **PERIODIC INSPECTIONS:** Check 184 days *only* if the locomotive qualifies per 49 CFR 229.23(b)(1) and the railroad chooses to abide by the requirement for 33 day QMI Daily inspections, otherwise check 92 days. Persons making the required inspections shall sign and list the item codes inspected. The employee's supervisor shall certify that the inspections were completed.
11. **H&H:** Enter the test pressure for the hydrostatic air reservoir test. If the reservoirs are drilled, enter "NA" here and "Drilled" in the Hammer and Hydro line below.
12. **WAIVERS:** Any waiver applicable to this locomotive shall be entered by waiver number in block 19 if a waiver from Part 229, or block 20, if a waiver from any other regulation. Enter explanatory information regarding the scope and content of each waiver under "Remarks".
13. **TESTS:** The maximum number of days for Event Recorder, Level 2 and Level 3 air brake tests shall be entered per the referenced sections of 49 CFR 229. Where the railroad has chosen to fragment air brake clean, repair and test requirements as permitted under 49 CFR 229.29, a separate air record shall be maintained in the cab of the locomotive and the word "Fragmented" shall be entered in the Level 2 and Level 3 lines.

REPAIRS: Special notes relating to repairs performed to restore compliance.

NOISE: Enter any noise tests or related information in accordance with 49 CFR 210.31.

REMARKS: Additional explanatory or clarifying information.

Public reporting burden for this collection of information is estimated to average 15 minutes per response including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. All responses to this collection of information are mandatory. A federal agency may not conduct or sponsor, and a person is not required to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unless that collection of information displays a current OMB Number. The OMB control number for this information is 2130-0004. Anyone with comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden, may send them to: Information Clearance Officer, Federal Railroad Administration, 1200 New Jersey Ave. SE, MS-25, Washington, DC 20590



U.S. Department of Transportation
Federal Railroad Administration

See reverse for Paperwork Reduction Act Statement

Locomotive Inspection and Repair Record

OMB No.2130-0004

Year: 2016	1. Operated by: Tri-city + Olympia RR	RR Code: TCRY	2. Owned by: Tri-city RR	RR Code: TCRY
3. Model No. 5040-2	4. Loco No. 34	If renumbered, Prev. No. UP 3075	5. Year Built 1975	Check if new loco. <input type="checkbox"/>
6. Propelled by: D-E	7. Horsepower 3000	8. Type of Service: Road <input checked="" type="checkbox"/> Yard <input type="checkbox"/> Other <input type="checkbox"/>	9. Steam Gen. a. No.: N/A	b. Working Pressure N/A
Type of Air Brake: 26-L	Air Dryer Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	11. Out of use Credit: 0	12. Last Periodic Inspection —	a. Date —
AFM CAL. 229.29(b) 92 day max. interval	Previous date: N/A	Date & Cert:	Date & cert:	Date & cert:
PERIODIC INSPECTIONS				
Check one:		<input checked="" type="checkbox"/> 92 days per 229.23(a)		<input type="checkbox"/> 184 days per 229.23(b)(1) only
13. Date: Mo/Day/Yr	14. Place	15. Items*	16. Person Conducting	17. Certified by
3-09-16	Richland	3, 5, 7	Gary Ogburn	Jose Romero
O.O.S.	4-1-16	Thru 12-31-16	(275 days)	Jose Romero
* 15. Item Code: 1. Brakes 2. Running Gear 3. Cab Equip 4. Mech Equip 5. Elect Equip 6. Steam Gen 7. Safety Appl				
TESTS	18. H&H Test Pressure Drilled	19. Waiver Part 229	20. Waiver - Other	
Type	Interval Not more than:	21. Person Conducting	22. Test Date & Place	23. Certified by
Event Recorder 229.25(d) or 229.27(c)	No. of days:	N/A		
Annual Tests 229.27	368 days	Gary Ogburn	Richland 3-9-16	Jose Romero
Hand Brake 232.105(c)	368 days	Gary Ogburn	Richland 3-9-16	Jose Romero
Air Brakes: Level 1 229.29(c)(1)	368 days			Richland, WA 12-8-14
Level 2 229.29(c)(2)	No. of days:	N/A		Richland, WA 4-27-15
Level 3 229.29(c)(3)	No. of days: 1104	Gary Ogburn	Richland 3-9-16	Jose Romero
Hammer and Hydro 229.31	736 days	N/A		Richland, WA 7-29-13

In accordance with the Locomotive Inspection Act, 49 USC Chapter 207 and the regulations issued pursuant to that Act, the parts and appurtenances of the locomotive unit have been inspected and all defects disclosed by the inspection have been properly repaired.

Certification of true copy: I certify that this is a true copy of the inspection and repair record of locomotive no. 34
Attention: A false entry on this form is punishable by fine or imprisonment (18 USC Sec 1001)

Officer-in-charge Jose Romero Date 3-09-16

INSTRUCTIONS: This Locomotive Inspection and Repair Record (Record or F6180-49A) covers a calendar year, except as noted. The Record for the preceding calendar year shall be retained in the locomotive until the first periodic inspection of the new year or, until the Record is replaced on April 2 or July 3 (if 184 day eligible) as required by 49 CFR 229.23(f) or, until the locomotive changes ownership (see 2 below.) Enter the requested information in each block. Special instructions are given below.

1. **OPERATED BY:** Enter the name and code of the primary railroad operating the locomotive at the time this Record is placed in it. Operator changes, including dates, shall be noted in "Remarks." The "RR Code" is as assigned by FRA to the railroad.
2. **OWNER:** Enter the name and RR Code of the owner. Changes in ownership shall be submitted as final reports.
3. **LOCOMOTIVE NO.:** Enter digits only. Include letters if they differ from the "RR Code." If renumbered, enter the previous number.
4. **YEAR BUILT:** Enter the year the locomotive was built and check if new. If remanufactured per 49 CFR 229.5, enter "RM" and the year.
5. **PROPELLED BY:** Enter Diesel-Electric (D-E), Electric (E), Electric Multiple Unit (MU), Diesel Multiple Unit (DMU), MU Control Cab (MUC), Non-MU Control Cab (NMUC), Turbine (T), Torque Converter (TC), or Other (O).
6. **MAXIMUM PISTON TRAVEL:** Enter only "nominal" travel. Do not include the manufacturer's tolerance.
7. **OUT-OF-USE CREDIT:** Enter the number of creditable calendar days the locomotive was out-of use since the last periodic inspection on the previous F6180-49A. Less than 30 consecutive calendar days for any out-of-use period may not be counted per 49 CFR 229.33. For current periods out-of-use, an entry "Out-of-use from _____ to _____" shall be made on a Periodic Inspection line and certified when a locomotive which would otherwise be due for inspection is out-of-use. If the locomotive is out of use at the end of the annual reporting period, complete the "To" entry with the last day of the period. An entry shall then be made on the new Record showing the first day of the new reporting period as the "From" date.
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9. **AFM CAL.:** Enter the date of the last Air Flow Method Indicator (AFM) calibration from the previous year. Enter and certify subsequent calibrations as they are done.
10. **PERIODIC INSPECTIONS:** Check 184 days *only* if the locomotive qualifies per 49 CFR 229.23(b)(1) and the railroad chooses to abide by the requirement for 33 day QMI Daily inspections, otherwise check 92 days. Persons making the required inspections shall sign and list the item codes inspected. The employee's supervisor shall certify that the inspections were completed.
11. **H&H:** Enter the test pressure for the hydrostatic air reservoir test. If the reservoirs are drilled, enter "NA" here and "Drilled" in the Hammer and Hydro line below.
12. **WAIVERS:** Any waiver applicable to this locomotive shall be entered by waiver number in block 19 if a waiver from Part 229, or block 20, if a waiver from any other regulation. Enter explanatory information regarding the scope and content of each waiver under "Remarks".
13. **TESTS:** The maximum number of days for Event Recorder, Level 2 and Level 3 air brake tests shall be entered per the referenced sections of 49 CFR 229. Where the railroad has chosen to fragment air brake clean, repair and test requirements as permitted under 49 CFR 229.29, a separate air record shall be maintained on the cab of the locomotive and the word "Fragmented" shall be entered in the Level 2 and Level 3 lines.

REPAIRS: Special notes relating to repairs performed to restore compliance.

NOISE: Enter any noise tests or related information in accordance with 49 CFR 210.31.

REMARKS: Additional explanatory or clarifying information.

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FRA RULE 229.21 DAILY TRIP INSPECTION RECORD

TCRY

LOCOMOTIVE NO. TCRY 34	ASSIGNED TO: TRI CITY RAILROAD COMPANY
TEST AT Richland Wa.	DATE 06/29/15
MAINTENANCE Richland Wa.	DATE 06/29/15

IF LOCO, IS NOT USED DURING A CALENDAR DAY, ENTER ON THAT INSPECTION LINE: "NOT USED"

DATE	PLACE	TIME / PERSON	DATE	PLACE	TIME / PERSON
6/30/15	Rich	0800 BV	9/20/15	not	used
7/1/15	Rich	0830 20	9/21/15	Rich	0930 BV
7/2/15	Rich	0900 20	9/22/15	Rich	0600 BV
7/3/15	not	USED	9/23/15	Rich	0900 BV
7/4/15	↓	↓	9/24/15	Rich	0930 JR
7/5/15	↓	↓	9/25/15	Rich	0830 BV
7/6/15	Rich	0900 20	9/26/15	Not	USED
7/7/15	Rich	0800 20	9/27/15	Not	USED
7/8/15	Rich	1100 20	9/28/15	Rich	0730 BV
7/9/15	Rich	0900 20	9/29/15	Rich	1030 BV
7/10/15	Rich	1200 20	9/30/15	Rich	0900 BV
7/11/15	Not	used	10/1/15	Rich	1100 BV
7/12/15	↓	↓	10/2/15	Rich	0600 BV
7/13/15	Rich	0930 20	10/3/15	Not	USED
0.0.5	7/14/15 to 9/7/15	0830 BV	10/4/15	Not	USED
9/8/15	Rich.	0850 BV	10/5/15	Rich	1000 20
9/9/15	Not	USED	10/6/15	Rich	1000 BV
9/10/15	↓	↓	10/7/15	Rich	1000 BV
9/11/15	↓	↓	10/8/15	Rich	0930 BV
9/12/15	↓	↓	10/9/15	Rich	0900 BV
9/13/15	↓	↓	10/10/15	Not	USED
9/14/15	↓	↓	10/11/15	Not	USED
9/15/15	Rich	0830 BV	10/12/15	Rich	1130 BV
9/16/15	Proth	used	10/13/15	Rich	0900 BV
9/17/15	Rich	0730 BV	10/14/15	Rich	0900 BV
9/18/15	Rich.	1030 BV	10/15/15	Rich	1200 BV
9/19/15	not	used	10/16/15	Rich	1300 MM

EXT 92 DAY FRA TEST DUE:

and Repair Record
OMB No.2130-0004

RR Code: **TCRY**

Check if new loco

10. Max. Piston Travel: **8** in.

11. Place: **Richland**

Date & cert: _____

229.23(b)(1) only.

17. Certified by: **José P. ...**

24. Previous Test Date & Place

Richland, 12-8-11
Richland, 10-4-27-
Richland, 12-8-

Richland, 10-7-29-

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34

09-16

Approval expi

TCRY

FRA RULE 229.21 DAILY TRIP INSPECTION RECORD

LOCOMOTIVE NO. **TCRY #** ASSIGNED TO: **TRI CITY RAILROAD COMPANY**

FRA TEST AT **Richland Wa.** DATE **06/29/15** IF LOCO, IS NOT USED DURING A CALENDAR DAY, ENTER ON THAT INSPECTION LINE: "NOT USED"

MAINTENANCE **Richland Wa.** DATE **06/29/15**

DATE	PLACE	TIME / PERSON	DATE	PLACE	TIME / PERSON
10/17/15	NOT	USED	11/01/15	Rich	1300 Gary Ogbum
10/18/15	NOT	USED	11/04/15	Rich	0930 Boris Vlado
10/19/15	Rich	1000 JR	11/06/15	Rich	1130 Boris Vlado
10/20/15	Rich	0930 BV	11/07/15	Rich	0300 Boris Vlado
10/21/15	Rich	0830 BV	11/18/15	Rich	1300 Gary Ogbum
10/22/15	NOT	USED	11-19-15	Richland	1200 Boris Vlado
10/23/15			11-20-15	Richland	0930 Boris Vlado
10/24/15					
10/25/15					
10/26/15					
10/27/15					
10/28/15					
10/29/15					
10/30/15					
10/31/15					
11/01/15					
11/02/15					
11/03/15					
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11/05/15					
11/06/15					
11/07/15					
11/08/15					
11/09/15					
11/10/15					
11/11/15	✓	✓			
11/12/15	Rich	1800 Gary Ogbum			

NEXT 92 DAY FRA TEST DUE:

INSTRUCTIONS: This Record for the precise until the Record is re ownership (see 2 ba

1. OPERATED BY: changes, includ

2. OWNER: Enter

3. LOCOMOTIVE

4. YEAR BUILT: En

5. PROPELLED BY: Non-MU Contr

6. MAXIMUM PIS

7. OUT-OF-USE OF previous F6180 periods out-of-locomotive whi period, comple the new report

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AFM CAL: Ente

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H&H: Enter the Hammer and H

WAIVERS: Any waiver from a

TESTS: The ma

49 CFR 229. separate air r

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Special notes

U.S. Depart Federal Rail

Year: **20**

3. Model: **5**

6. Propel: **D**

Type of: **2**

AFM C: **229.290**

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TEST

Type

Byan: **229.2**

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U.S. Department of Transportation
Federal Railroad Administration

See reverse for Paperwork Reduction Act Statement

Locomotive Inspection and Repair Record

OMB No.2130-0004

Year: 2016	1. Operated by: Tri-city & Olympia RR	RR Code: TCRY	2. Owned by: Tri-city RR	RR Code: TCRY		
3. Model No. 5040-2	4. Loco No. 34	If renumbered, Prev. No. UP 3075	5. Year Built 1975	Check if new loco. <input type="checkbox"/>		
6. Propelled by: D-E	7. Horsepower 3000	8. Type of Service: Road <input checked="" type="checkbox"/> Yard <input type="checkbox"/> Other <input type="checkbox"/>	9. Steam Gen. a. No.: N/A	b. Working Pressure N/A		
Type of Air Brake: 26-L	Air Dryer Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	11. Out of use Credit: 0	12. Last Periodic Inspection —	a. Date —		
AFM CAL. 229.29(b)	92 day max. interval	Previous date: N/A	Date & Cert:	Date & cert:		
PERIODIC INSPECTIONS						
Check one:		<input checked="" type="checkbox"/> 92 days per 229.23(a)		<input type="checkbox"/> 184 days per 229.23(b)(1) only		
13. Date: Mo/Day/Yr	14. Place	15. Items*	16. Person Conducting	15. Items*	16. Person Conducting	17. Certified by
3-09-16	Richland	3, 5, 7	Gary Ogburn	1, 2, 4	Gary Ogburn	Jose Romero
* 15. Item Code: 1. Brakes 2. Running Gear 3. Cab Equip 4. Mech Equip 5. Elect Equip 6. Steam Gen 7. Safety Appl						
TESTS	18. H&H Test Pressure Drilled	19. Waiver Part 229	20. Waiver - Other			
Type	Interval Not more than:	21. Person Conducting	22. Test Date & Place	23. Certified by	24. Previous Test Date & Place	
Event Recorder 229.25(d) or 229.27(c)	No. of days:	N/A				
Annual Tests 229.27	368 days	Gary Ogburn	Richland 3-9-16	Jose Romero	Richland, WA 12-8-14	
Hand Brake 232.105(c)	368 days	Gary Ogburn	Richland 3-9-16	Jose Romero	Richland, WA 4-27-15	
Air Brakes: Level 1 229.29(c)(1)	368 days				Richland, WA 12-8-14	
Level 2 229.29(c)(2)	No. of days:	N/A				
Level 3 229.29(c)(3)	No. of days: 1104	Gary Ogburn	Richland 3-9-16	Jose Romero	Richland, WA 7-29-13	
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Officer-in-charge Jose Romero Date 3-09-16

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6. **MAXIMUM PISTON TRAVEL:** Enter only "nominal" travel. Do not include the manufacturer's tolerance.
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REPAIRS: Special notes relating to repairs performed to restore compliance.

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NOISE: Enter any noise tests or related information in accordance with 49 CFR 210.31.

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REMARKS: Additional explanatory or clarifying information.

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Locomotive Inspection and Repair Record

U.S. Department of Transportation
Federal Railroad Administration

See reverse for Paperwork Reduction Act Statement

OMB No.2130-0004

Year: 2015		1. Operated by: Tri-city & Olympic RR		RR Code: TCRY		2. Owned by: Tri-city RR		RR Code: TCRY	
3. Model No. SD40-2		4. Loco No. 34		If renumbered, Prev. No. VP 3075		5. Year Built 1975		Check if new loco. <input type="checkbox"/>	
6. Propelled by: D-E		7. Horsepower 3000		8. Type of Service: Passenger <input type="checkbox"/> Road <input checked="" type="checkbox"/> Yard <input type="checkbox"/> Other <input type="checkbox"/>		9. Steam Gen. a. No.: N/A		b. Working Pressure N/A	
10. Max. Piston Travel 8 in.		11. Out of use Credit: ITA		12. Last Periodic Inspection		a. Date 12-8-14		b. Place Richland	
Type of Air Brake: 26-L		Air Dryer Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Date & Cert:		Date & cert:		Date & cert:	
AFM CAL. 229.29(b)		92 day max. interval		Previous date: N/A		Date & cert:		Date & cert:	
PERIODIC INSPECTIONS									
Check one: <input checked="" type="checkbox"/> 92 days per 229.23(a) <input type="checkbox"/> 184 days per 229.23(b)(1) only									
13. Date: Mo/Day/Yr		14. Place		15. Items*		16. Person Conducting		17. Certified by	
1-27-15		Richland		3, 5, 7		Gary Ogburn		Jose Romero	
out of Service		4/2/15 to 5/3/15		(32 Days)				Jose Romero	
out of Service		5/6/15 to 6/4/15		(30 Days)				Jose Romero	
out of Service		7/14/15 to 9/7/15		(56 Days)				Jose Romero	
6-29-15		Richland WA		1, 2, 4		Gary Ogburn		Jose Romero	
out of Service		11-20-15 to 12-31-15		(40 days)				Jose Romero	
* 15. Item Code: 1. Brakes 2. Running Gear 3. Cab Equip 4. Mech Equip 5. Elect Equip 6. Steam Gen 7. Safety Appl									
TESTS		18. H&H Test Pressure Drilled		19. Waiver Part 229		20. Waiver - Other			
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Officer-in-charge [Signature] Date 01/27/15

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Railserv Locomotive Services
P.O. Box 99178
Chicago, IL 60693-9178

SHIPMENT

Shipping address only:
Locomotive Services Air Brake
2173 FM 2087N 2335 FM 2087N
Longview TX 75603 Longview TX 75603

Shipment Number: 5245

Shipment Date: 11/08/16

Page: 1


Bill
To: Tri City & Olympia Railroad
PO Box 1700
Richland, WA 99352

Ship
To: Tri City & Olympia Railroad
2579 Stevens DR
Richland, WA 99354

Ship Via

TCRY 34

Customer ID 50061
P.O. Number TCRY16035
P.O. Date 11/08/16
Our Order No. 6075
SalesPerson Janet Wynne

Item No.	Description	Unit	Shipped	Ordered	Back Ordered
558534	F-1 BRACKET GASKET	Each	2	2	
 FREIGHT	Fedex 707209232317	Each	1	1	



ANNUAL - TRI-ANNUAL INSPECTION SD 40-2

UNIT # TCRY 34

DATE STARTED: 12-1-15

DATE COMPLETED: 3-9-16

ITEM NO.	INSPECTION ITEMS	INSPECTOR'S INITIALS
1	Fluid Levels: A. Engine Oil B. Cooling Water C. Governor Oil D. Compressor Oil	JR
2	Engine Oil Pressure Reading: A. IDLE <u>24</u> B. RUN 8 <u>43</u>	JR
3	Check cooling system for leaks and proper water treatment.	JR
4	Check exhaust system for leaks.	JR
5	Check for oil leaks.	JR
6	Check air box covers.	JR
7	Inspect fuel system for leaks or bypassing.	JR
8	Check for unusual noises.	JR
9	Verify operation of engine protective devices. A. Crankcase pressure B. Low water	JR
10	Quality governor. A. Low oil pressure B. Low idle C. Solenoid operation	JR
11	Test: A. Horn B. Bells C. Sanders D. Headlights and ditch lights	JR
12	Check and record air pressure settings: A. Main reservoir (130-140 lbs) <u>125-135</u> B. Brake pipe (90 lbs) <u>90</u> C. Equalizing reservoir (90 lbs) <u>90</u>	JR
13	Test air brake equipment.	JR
14	Drain moisture from main reservoir and dirt collectors.	JR
15	Verify spitter operation.	JR
16	Check operation: A. Cooling fans and shutters B. Traction motor blower C. Grid blowers	JR
17	Check operation of emergency fuel cutoffs from all locations.	JR

ITEM NO.	INSPECTION ITEMS	INSPECTOR'S INITIALS
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18	Verify VR output (74 +/- 1/2v)	JR
19	Clear all low voltage grounds.	JR
20	Verify heater operation and motor brushes.	JR
21	Verify wiper operation and wiper condition.	JR
22	Verify speedometer and overspeed operation.	JR
23	Calibrate and seal speedometer.	JR
24	Test air gauges per Rule 229.53.	JR
25	Check air hoses and gaskets.	JR
26	Record snowplow height.	JR
27	Inspect spare knuckles.	JR
28	Inspect coupler components.	JR
29	Check coupler slack.	JR
30	Record coupler height (31" to 33").	JR
31	Lube coupler wearplate and truck center castings.	JR
32	Work brakes, piston travel 4" to 6".	JR
33	Inspect locomotive undercarriage and running gear including handbrake operation.	JR
34	Service journal boxes and fill to proper level	JR
35	Inspect and service traction motors: A. Gear cases B. Covers C. Brushes D. Leads, boots, clamps, ground straps E. Support bearings	JR
36	Lubricate car body doors, hinges, and latches.	JR
37	Inspect top deck.	JR
38	Inspect air boxes and drains.	JR
39	Inspect crankcase - overheating, etc.	JR
40	Set injector timing and rack.	JR
41	Lube governor linkage.	JR
42	Take lube oil sample.	JR
43	Change engine filters: A. Fuel - primary and spin-ons B. Engine oil C. Turbo lube and soak back D. Compressor / spin-on and intake E. High voltage compartment F. Air brake filters G. Air intake	JR
44	Clean eductor tube.	JR
45	Inspect windows, doors and seals.	JR
46	Inspect cab seats.	JR

ITEM NO.	INSPECTION ITEMS	INSPECTOR'S INITIALS
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47	Inspect main generator room: A. Slip rings and brushes B. Fuses and diodes C. Suppression circuits and wiring D. Clean alternator windows E. Check connections on AC ring terminal board	JR
48	Inspect grid hatch: A. Grid blower, spins free, commutator and brushes B. Grid C. O contactors	JR
49	Inspect start station.	JR
50	Inspect AC cabinet: A. Contactor tips B. Cooling fan fuses C. Terminal boards and connections	JR
51	Rebrush fuel pump if necessary.	JR
52	Rebrush turbo-lube pump if necessary.	JR
53	Check cooling fan plugs for tightness.	JR
54	Ensure electrical doors and covers are properly labeled for high voltage.	JR
55	Inspect and clean load regulator.	JR
56	Inspect aux-gen brushes, if applicable.	JR
57	Visually inspect electrical gear and equipment.	JR
58	Secure covers on all electrical equipment.	JR
59	Check all electrical lamps and replace as necessary.	JR
60	Check warning lights.	JR
61	Sand locomotive.	JR
62	Inspect fire extinguishers.	JR
63	Clean: A. Control stand B. Cab interior C. Long hood compartment D. Engine compartment	JR
64	Wash locomotive and batteries, drain retention tank.	JR
65	Verify ground relay.	JR
66	Perform electrical insulation inspection.	JR
67	Verify wheelslip operation.	JR
68	Insure blue card and daily inspection cards are on locomotive and properly endorsed.	JR

If TI Inspection - work the following:

69	Change out air equipment, air kit.	JR
70	Change out overspeed magnet valve.	JR

ITEM NO.	INSPECTION ITEMS	INSPECTOR'S INITIALS
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71	Change out DBI magnet valve.	JR
72	Verify all repairs.	JR
73	Inspect and lube brake cylinders.	JR

I certify that this locomotive has completed the required AI _____, TI _____ inspection, is ready for service, and all paperwork has been completed and signed off.

Inspector's Signature:

Jose Fomero

Date:

3-9-16

34

SALES ORDER

For questions regarding this Invoice, Please call:

903-236-8523

Shipping address only:

Air Brake Locomotive Service
2335 FM 2087N 2173 FM 2087N
Longview TX 75603 Longview TX 75603

Sales Order Number: 4600

Sales Order Date: 05/14/15

Page: 1

Ship To: Tri City & Olympia Railroad
PO Box 1700
Richland, WA 99352

Ship To: Tri City & Olympia Railroad
PO Box 1700
Richland, WA 99352

Ship Via
Ship Date 05/14/15

Customer ID 50061
P.O. Number
P.O. Date 05/14/15

Terms Net 30

SalesPerson Janet Wynne

Item No.	Description	Unit	Quantity	Unit Price	Total Price
	Salem Double Check Valve Cartridge	Each	11	18.00	198.00
	Salem Single Check Valve Cartridge	Each	4	18.00	72.00
	H-5 RELAYAIR VALVE 25#	Each	1	77.00	77.00
	F-1 Blanking Plate N/C	Each	1		
296	J-1 SAFETY VALVE	Each	2	67.30	134.60
414	26-F QR VALVE	Each	2	90.00	180.00
497	SA-26 Independent Brake Valve	Each	2	72.50	145.00
501	J-1 6.16 RELAY VALVE	Each	2	130.00	260.00
925	P-2-A BRAKE VALVE	Each	2	86.20	172.40
973	26-C Auto Brake Valve	Each	2	252.00	504.00
974	A-1 PILOT VALVE	Each	2	75.00	150.00
141	26-F Control Service Portion	Each	2	248.00	496.00
320	#8 VENT VALVE	Each	4	51.50	206.00
	Transferred to page 2				2,595.00

SALES ORDER

For questions regarding this Invoice, Please call:

903-236-8523

Shipping address only:

Air Brake	Locomotive Service
2335 FM 2087N	2173 FM 2087N
Longview TX 75603	Longview TX 75603

Sales Order Number: 4600
 Sales Order Date: 05/14/15
 Page: 2

Id
 : Tri City & Olympia Railroad
 PO Box 1700
 Richland, WA 99352

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 To: Tri City & Olympia Railroad
 PO Box 1700
 Richland, WA 99352

Ship Via
 Ship Date 05/14/15

Customer ID 50061
 P.O. Number
 P.O. Date 05/14/15

Terms Net 30

SalesPerson Janet Wynne

Item No.	Description	Unit	Quantity	Unit Price	Total Price
	Transferred from page 1.....				2,595.00
382	DUAL PORT MU C/O COCK	Each	2	41.50	83.00
			5001 5001	R&R R&R	
347	DT-3A DOUBLE CHECK VALVE	Each	2	30.50	61.00
			5001 5001	R&R R&R	
0077	KUNKLE SAFETY VALVE	Each	2	45.00	90.00
			5001 5001	R&R R&R	
	J-Valve Filling Piece Block N/C	Each	2		
			5001 5001	R&R R&R	
	SALEM BELL VALVE	Each	1	29.00	29.00
			5001 5001	R&R R&R	
	1/8 " one way check valve	Each	1	18.00	18.00
			5001 5001	R&R R&R	
			5001 5001	R&R R&R	

Amount Subject to
 Sales Tax
 0.00

Amount Exempt
 from Sales Tax
 2,876.00

Subtotal:	2,876.00
Invoice Discount:	0.00
Tax:	0.00
Total:	2,876.00



FLUID ANALYSIS

Western States Equipment

PO Box 38

Boise, ID 83707

www.WesternStatesCat.com

Normal

1 of 1

09/25/2014

Make / Model

EMP SD40

34/

Compartment

Diesel Engine

Fluid Type

CHEVRON 15W40

WO / Reference

Current Interpretation

All Values Appear Normal,
Resample at Regular Interval

Control #	002620140924	002920140207
Date Taken	09/16/2014	01/31/2014
Service Meter Reading	0	0
Fluid Run Time	0	0
Fluid Added Gal / Qts	0 / 0	0 / 0
Fluid Status	Sampled	Sampled
Filter Changed	Unknown	Unknown
Lead (PB)	8	9
Copper (CU)	8	18
Iron (FE)	36	48
Chrome (CR)	0	1
Tin (SN)	3	4
Nickel (NI)	1	1
Silver (AG)	0	0
Aluminum (AL)	2	4
Silicon (SI)	5	4
Sodium (NA)	20	15
Potassium (K)	3	5
Moly (MO)	130	124
Barium (BA)	0	0
Magnesium (MG)	32	18
Phosphorus (P)	118	11
Zinc (ZN)	128	18
Soot	28	29
Oxidation	11	11
Nitration	13	13
Sulfation	25	26
Visc 100C	14.8	12.3
Glycol	N/A	N/A
Fuel	N/A	N/A
Water	Negative	Negative

0001016290

TRI CITY & OLYMPIA RAIL ROAD

Attn: Rhett Peterson

2579 Stevens Dr

Po Box 1700

Richland, WA 99352

This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this component.

Control #	002920140207
Date Taken	01/31/2014
Service Meter Reading	0
Fluid Run Time	0
Fluid Added Gal / Qts	0 / 0
Fluid Status	Sampled
Filter Changed	Unknown
Lead (PB)	9
Copper (CU)	18
Iron (FE)	48
Chrome (CR)	1
Tin (SN)	4
Nickel (NI)	1
Silver (AG)	0
Aluminum (AL)	4
Silicon (SI)	4
Sodium (NA)	15
Potassium (K)	5
Moly (MO)	124
Barium (BA)	0
Magnesium (MG)	18
Phosphorus (P)	11
Zinc (ZN)	18
Soot	29
Oxidation	11
Nitration	13
Sulfation	26
Visc 100C	12.3
Glycol	N/A
Fuel	N/A
Water	Negative



FLUID ANALYSIS

Western States Equipment

PO Box 38

Boise, ID 83707

www.WesternStatesCat.com

Normal

1 of 1

02/07/2014

Make / Model

EMP SD40

34 /

Compartment

Diesel Engine

Fluid Type

CHEV 40W

WO / Reference

Current Interpretation

All Values Appear Normal,
Resample at Regular Interval

0001016290

TRI CITY & OLYMPIA RAIL ROAD

Attn: Rhett Peterson

2579 Stevens Dr

Po Box 1700

Richland, WA 99352

This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this component.

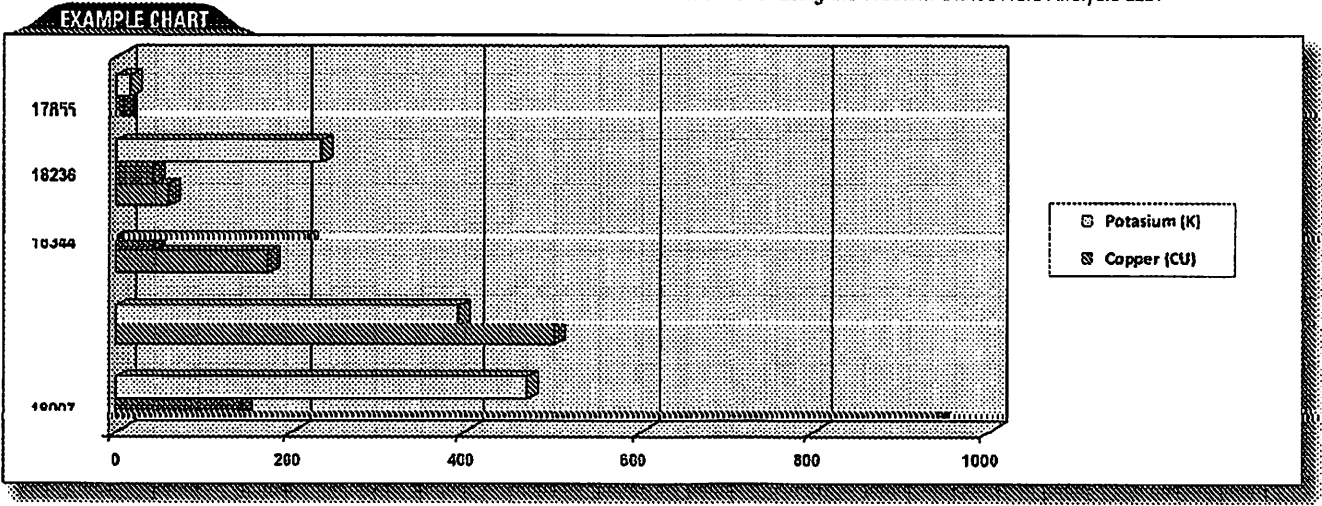
NEW EMAIL RESULTS OPTION



Get your results right away by using our new email option. It's as simple as supplying us your email address and we'll send your results the same day we process your sample. You can also obtain your results online by visiting www.WesternStatesCat.com.

Your sample results are located under the Service tab click on S.O.S Oil Lab. If you haven't registered, please call our Fluid Analysis Lab at (208) 884-2214 and we will help get you set up and answer any questions you may have.

Thanks for using the Western States Fluid Analysis Lab!



Registered By: BO HEGI

Interpreted By: BO HEGI

For additional sample history visit us at www.WesternStatesCat.com