

ERLING WESTERN STAR TRUCKS
15-52 STREET S.E.
ALGARY, AB T2C 2R4
(403)720-3400

REPAIR ORDER
CUSTOMER INVOICE

INVOICE DATE 01-23-12

REPAIR ORDER NUMBER
>>>> <<<<

OPEN 01-10-12
SVC WTR DM *KM

MILEAGE 1121142
LICENSE AB
CPL/ARRG 180-2238
R RATIO 3.91

SERIAL NO. 2WLPCD3JX1K971764 UNIT NO. 6
YEAR/MAKE/MODEL - 2001 WESTERN STAR 4964FX
ENGINE/MODEL/SERL C15 6NZ42599
RNS/MODEL/SERL - RTLO18918B S0161289
XLS MODEL/SERL - RT46160 AVA01021678 RT46160 AVA01021682
ELL DLR 41C2 DEL DATE 09-26-01
EMO

DEL MILE 675K

** ENGINE SERVICE SPECIAL **
ENGINE DOWNLOADS REQUIRED FOR
ENGINE, TRANSMISSION, CLUTCH AND DIFFERENTIAL REPAIRS
* NO DOWNLOADS NO WARRANTY **

CAT CONFIRM BEFORE _____ AFTER _____
DETROIT REFERENCE NUMBER _____
CUMMINS CONTROL NUMBER _____
** AFTER 1/2 HR DIAGNOSTIC TIME CALL THE HELP LINE **
>> NO CHARGE <<

STERLING WESTERN STAR TRUCKS

9115 - 52 STREET S.E.
CALGARY, AB T2C 2R4
(403)720-3400

REPAIR ORDER

CUSTOMER INVOICE

PAGE 2

*

INVOICE DATE 01-23-12

REPAIR ORDER NUMBER

>>>>

<<<

(H10) CHECK & REPAIR FOR OVERHEATING - POSSIBLE WATER PUMP OR
THERMOSTATS - NO HEAT IN CAB

COOLING SYSTEM CONCERNS ** PLEASE ADD TEXT **

CAUSE:

FAULTY THERMOSTATS AS WELL AS RAD LEAKING

CORRECTION:

RAN UNIT UP TO TEMP GOT TO 225 FAN CAME ON UNIT OVER HEATED
AND CAB TEMP WENT COLD WAS TOLD TO REMOVE WATER PUMP SO I DID ALSO
REMOVED THERMOSTATS AND TESTED THEY DID OPEN AT 190 BUT NOT FULLY GOT
OK TO REPLACE STATS ALSO FOUND WATER PUMP PLATE CAVITATED BADLY.
CLEANED ALL PARTS ALSO GOT OK TO SEND RAD OUT AND GET
REPAIRED. START TO REMOVE RAD TWO BOLTS BROKEN ON CONDENSOR &
REPLACED WATER SHUT OFF VALVE FOR CAB WAS LEAKING CLEANED AREA .
INSPECTED PARTS AND WATER PUMP REPLACED WATER PUMP AND REPLACED
THERMOSTATS AND REASSEMBLED HOUSEING
INSTALLED NEW WATER PUMP AND REINSTALLED THERMOSTATE HOUSEING AND
RECONNECTED HOSES AND REINSTALLED ALTERNATER BRACKET STARTED ADJUSTING
BELTS, REINSTALLING BELTS AND ADJUSTING PRESSURE TESTED CAC ALL OK
TESTED AIR TO AIR IT PASSED INSTALLED ON RAD INSTALLED RAD INTO UNIT
INSTALLED ALL BRAKETS AND MOUNTING BRAKETS HAD TO DRILL OUT 4 BROKEN
BOLTS OUT OF CONDENSOR INSTALLED NEW BOLTS INSTALLED CONDENSOR AND
GRILL INSTALLED LOWER RAD HOSE AND ALL COOLING PIPES FILLED WITH
COOLANT RAN UP TO TEMP GOT TO 225 FAN CAME ON COOLANT DROPED IN TEMP
DOWN TO 170 HEAT STAYED IN CAB ALL OK EXCEPT I FOUND COOLANT COMING
OUT OF OVER FLOW PREFORMED BUBBLE TEST AND HAS LOTS OF BUBBLES REMOVED
RAD CAP TEST ALL OK DISCONNECTED AIR COMPRESSOR AND PREFORMED ANOTHER
BUBBLE TEST STILL LOTS OF BUBBLES TOOK VIDEO OF BUBBLE TEST CLEANED
AREA WAITING FOR AUTH TO REMOVE HEAD

TOTAL LABOR

\$920.00

TOTAL PARTS

\$527.15

1	4P2383	ADAPTER	\$197.69
1	1393550	GASKET	\$5.08
1	4N1156	GASKET, T/	\$1.69
1	ABP-N83-324023	VALVE, WAT	\$28.39
1	WWS-20028-3411	GASKET, RA	\$13.20
12	2388648	COOLANT-E	\$224.88
3	2388648	COOLANT-E	\$56.22

(H08) REPAIR COOLANT LEAT @ RADIATOR
RADIATOR ** PLEASE ADD TEXT **

CAUSE:

CORRECTION:

RADIATOR REPAIR (SUBLET)

REPAIR ORDER

CUSTOMER INVOICE
PAGE 3

INVOICE DATE 01-23-12

REPAIR ORDER NUMBER
>>>> <<<<

TOTAL LABOR
TOTAL PARTS \$0.00
TOTAL SUBLET LABOR \$18.74
\$1,220.98

C7983 1 2388648 COOLANT-E \$18.74
1 SUBLET LABOR \$1,220.98
REBUILDING RADIATOR, TOP HEADER LEAKS, GASKET LEAKS

(B13) CHECK & REPAIR FOR AIR LEAK UNDER CAB
AIR VALVE ** PLEASE ADD TEXT **
DIAGNOSED AIR LEAK AS AIR DRYER CARTRIDGE REMOVED AND REPLACED TESTED
NO FURTHER LEAK

TOTAL LABOR \$230.00
TOTAL PARTS \$70.76

1 TDA-R950011 CARTRIDGE \$70.76

(N00) REPLACE HEAD GASKET
- PERFORM OPT WITH PLATINUM KIT
ENGINE OVERHAUL ** PLEASE ADD TEXT **

CAUSE:

FAILED HEAD GASKET

CORRECTION: (646)

GOT OK TO REMOVE CYLINDER HEAD DRAINED COOLANT DRAINED OIL
REMOVED OIL FILTER REMOVED VALVE TERAIR AND INJECTORS AS WELL AS JAKE
SPACER PLATE REMOVED FAN HUB AND CAM GEAR STARTED TO REMOVE HEAD BOLTS
BUT FOUND EXTRAMLY TIGHT HAD TO BREAK FREE BY HAND IMPACT WOUND NOT
MOVE THEM FINALLY GOT ALL HEAD BOLTS OUT REMOVED HEAD REMOVED OIL PAN
AND REMOVED PISTON AND LINERS CLEANED BLOCK AND ALL RELATED PARTS
REMOVED OIL COOLER END OF SHIFT
INSTALLED NEW OIL COOLER AND GOT OPT KIT INSTALLED NEW LINERS
CHECKED LINER PULTRUSION ON ALL 6 LINERS ALL WITHIN SPEC SEE ATTACHED
SHEET INSTALLED CYLINDER HEAD AND ALL RELATED PARTS DID VALVE SET
FILLED WITH FLUIDS INSTALLED TURBO AND INTAKE PIPING RAN UNIT TOOK FOR
ROAD TEST ALL OK CHECKED OVER FOR LEAKS ALL OK CLEANED AREA .

TOTAL LABOR \$5,175.00
TOTAL PARTS \$19,176.46

1	0R7923	TURBO	\$3,080.56
1	1891814	GASKET KI	\$174.39
1	0R9056	COOLER	\$1,123.08
2	4C4200	PAINT-YEL	\$28.78
1	6V5266	SEAL, O-RI	\$12.55
1	1142687	SEAL, O-R	\$4.70
2	1440367	CLAMP	\$32.58

STERLING WESTERN STAR TRUCKS

3115 - 52 STREET S.E.
CALGARY, AB T2C 2R4
(403)720-3400

REPAIR ORDER

CUSTOMER INVOICE
PAGE 4

INVOICE DATE 01-23-12

REPAIR ORDER NUMBER
>>>> <<<<

2	1803399	PACKING	\$135.66
2	BRZ-9210H	CLMP 13/1	\$5.44
1	1304698	SLEEVE	\$51.49
2	1440367	CLAMP	\$32.58
2	1326658	SHIELD	\$33.08
2	1326657	SHIELD	\$23.66
1	10R9347	ENGINE KI	\$12,602.83
1	1333359	MANIFOLD,	\$403.25
1	1333359	MANIFOLD,	\$403.25
1	1501914	MANIFOLD-	\$615.04
1	SLL-43154478	ROTELLA	\$19.36
1	SLL-43154478&	HNDLG FEE	\$0.20
1	1090072	SEAL,O-RI	\$7.25
1	1090078	SEAL,O-RI	\$6.78
1	7E6508	CAP A	\$11.06
1	23-12485-275	CLAMP-WOR	\$12.21
1	WWS-17001-4406	FILTER	\$43.83
1	WWS-17001-4406&	HNDLG FEE	\$1.00
2	BRZ-B9224-0406	CLAMP,T B	\$19.02
1	THP-3AB4AF400E09	HOSE,HUMP	\$36.04
2	FG-AF1616	FILTER	\$107.38
30	PHM-8-43147	CBL TIE 1	\$5.40
40	SLL-500004741	ROTELLA	\$131.20
40	SLL-500004741&	HNDLG FEE	\$2.00
1	MOE-10322-3402	CAP,OIL F	\$10.81

OPT COVERAGE FOR 4 YEARS - UNLIMITED MILEAGE AND FREE TOWING
COVERAGE. WITH THE REPLACEMENT OF TURBOS AND 6 INJECTORS AND OIL
WITH THE REPLACEMENT OF TURBOS AND 6 INJECTORS AND OIL COOLER
PLATINUM KIT

PROGRAM NAT-ENG-258

A \$ 3700.00 USD VALUE FOR THE PURCHASE PRICE OF 1 YEAR AT \$ 650.00 USD
AT CURRENT EXCHANGE RATE: 1 USD = 1.01027 CAD (\$ 656.68 CAD)

CAUSE:

CORRECTION:

UPGRADE TO 4 YEAR COVERAGE WHICH INCLUDES TOWING.

TOTAL SUBLET LABOR

\$656.68

C8016

1 SUBLET LABOR

\$656.68

SUBLET TO CATERPILLAR FOR OPT COV.

STERLING WESTERN STAR TRUCKS

9115 - 52 STREET S.E.
CALGARY, AB T2C 2R4
(403)720-3400

REPAIR ORDER

CUSTOMER INVOICE
PAGE 5

*
INVOICE DATE 01-23-12

REPAIR ORDER NUMBER
>>>> <<<<

ABOR	\$6,325.00
ARTS	\$19,793.11
UBLET	\$1,877.66
UPPLIES	\$500.00
REIGHT	\$0.00
THER CHGS	\$0.00

SUBTOTAL	\$28,495.77
G.S.T. R863622379	\$1,424.79
TOTAL	\$29,920.56