

CUSTOMER #:  
UNIT# D550

INVOICE

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SERVICE ADVISOR:

UNIT	YEAR	MAKE/MODEL	VIN	LICENSE	MILEAGE IN/OUT	TAG
D550	14	MACK CHU613	1M1AN07Y2EM016136		526606/526732	
DEL DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT
26JUL13 DD			08:42 27SEP19		0.00	
R.O. OPENED	READY	OPTIONS: {				
15MAR19	30SEP19					

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
526606							

. ASSIST TECH IN SETTING GEAR LASH.

AFTER OTHER TECH PUT THE BODY FILLER IN THE LINER ORINGS WAS TOLD TO BUILD ENGINE BACK WITH PARTS THAT HAD BEEN ORDERED. LINERS CAME WITH PISTON TOPS IN THE LINERS. REMOVED THE RODS FROM THE OLD PISTONS AND INSTALLED IN THE PISTON LINERS OF THE NEW ONES. INSTALLED THE LINER ORINGS AND LUBE AS OUT LINED. INSTALLED LINERS INSTALLED BEARINGS AND TORQUE TO SPEC. CHECKED TO SEE IF ANT ORINGS WHERE HANGING OUT THE BOTTEM AND FOUND NONE. REINSTALLED THE STIFNER PLATE AND TORQUE NEW BOLTS. INSTALLED AND TORQUE TO PISTON COOLING NOZZLES. INSTALLED NEW OIL PUMP. PICK UP HAD TO DRESS THE NEW OIL PAN AND INSTALL. INSTALLED INTAKE AND EXHAUST ON THE HEAD AND TORQUE. STILL HAVE ACHING ON THE DECK OF THE BLOCK. INSTALLED THE HEAD AND TORQUE. INSTALLED THE INJECTORS AND TORQUE. INSTALLED THE CAM AND TORQUE. HAD TECH SET THE LASH FOR ME AND TORQUE GEARS. INSTALLED THE ROCKERS AND TORQUE. REINSTALLED THE RECOVER AND TORQUE. REINSTALLED ALL THE HOSES AND LINES REMOVED. REINSTALLED THE INSIDE OF THE TRUCK. FILLED COOLANT. PRESSURED THE COOLANT SYSTEM AS PER FOREMAN. NO DROP IN COOLANT. REPLACED OIL AND FUEL FILTERS AND FILLED OIL. STARTED TRUCK. LET RUN INSPECTED FOR LEAKS FOUND NO LEAKS

\*\*\*\*\*

PARTS: LABOR: - - - - OTHER: TOTAL LINE  
526606 NO REPAIRS ON THIS LINE

\*\*\*\*\*  
AK\*\*APPLY DURALLOY TO CYCLINDER BORES  
200 APPLY DURALLOY TO CYCLINDER BORES  
2556 CS  
2 10329 ABRASIVE WHEEL  
2 AF252 FLAP WHEEL  
1 EMDEA1KG ENECON DURALLOY

DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
GAS, OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

CUSTOMER

## INVOICE

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HOME:	CONT:	SERVICE ADVISOR:					
BUS:	CELL:						
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26JUL13 DD			08:42 27SEP19				
R.O. OPENED		READY		OPTIONS:		30SEP19	
15MAR19		30SEP19					

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
PARTS:							
			LABOR:				
			OTHER:				
					TOTAL LINE		2331.18

526606 THOROUGHLY CLEANED ORING GROOVES IN THE BLOCK AND DRIED THEM. CAREFULLY APPLIED DURALLOY COMPOUND TO THE ORING GROOVES TO FILL THE PITTING THAT MAY BE DETRIMENTAL TO ORING EFFECTIVENESS. AFTER ALLOWING DURALLOY TO CURE UNTIL IT WAS NO LONGER TACKY, I SANDED IT TO RESTORE ORING GROOVES TO THEIR ORIGINAL SHAPE AND DEPTH. ENGINE BLOCK IS READY FOR REASSEMBLY. \*NOTE\* CUSTOMER HAS BEEN ADVISED THAT THERE IS NO WARRANTY ON THIS TYPE OF REPAIR AND WE SHALL NOT BE HELD LIABLE FOR ANY FUTURE ISSUES THAT MAY ARISE AS A RESULT OF THIS TEMPORARY REPAIR. FOR RUST/PITTING AND DETERIORATION OF THE METAL SURFACES SERVICE MANGER DISCUSSED AND EXPLAINED TO DAVID DOLLAR HE EXCEPTED.

\*\*\*\*\*

AL\*\*CHECK AND ADVISE FOR BRAKES LOCKING UP  
 100 CHECK AND ADVISE FOR BRAKES LOCKING UP  
 706 CS  
 2 21370850 BRAKE CHAMBER  
 DELIVER TO OUTSIDE BAY 19

PARTS:	LABOR:	OTHER:	TOTAL LINE	421.42
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526606 HAD TO JUMP START TO BRING IN SHOP AND CHECK OUT THE BRAKES BACK THE REAR BRAKES OFF SOME AND SEEN THAT THE STEER AXLE BRAKE CHAMBER BRAKE ARE NOT WORKING BACK THE BRAKE SHOES OFF AND HIT THE SLACK ADJ FOR THE BRAKE CHAMBER ROD TO GO BACK FOR HAVING TO JUMP START TRUCK I PUT THE BATTERY CHARGE ON AND GOT WITH BLAKE U, GOT THE OK TO PUT THE STEER AXLE BRAKE CHAMBER ON PULL THE OLD BRAKE CHAMBER OFF DO TO THEY ARE STICKING PUT THE NEW STEER AXLE BRAKE CHAMBER ON AND ADJ THE BRAKES PUT TRUCK ON THE TEST DRIVE LINE

\*\*\*\*\*

AM\*\*VACUUM & CHARGE A/C SYSTEM  
 610 VACUUM & CHARGE A/C SYSTEM  
 CS

PARTS:	LABOR:	OTHER:	TOTAL LINE	157.00
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526606 PULLED AROUND BEHIND SHOP, PUT BATTERY CHARGER ON, RECOVERED SYSTEM TO VERIFY WAS M/T. PULLED VACUUM AND LEAK TEST, OK CHARGED WITH 3.5 LBS OF FREON STARTED TRUCK WAS NOT COOLING, COMP. NOT COMING ON

DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
GAS, OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

CUSTOMER

## INVOICE

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HOME:

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BUS:

CELL:

## SERVICE ADVISOR

UNIT

YEAR

MAKE/MODEL

VIN

LICENSE

MILEAGE IN/ OUT

TAG

D550

14

MACK CHU613

1M1AN07Y2EM016136

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OPTIONS:

1) UNIT D550

15MAR19

30SEP19

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
CHECKED CONN, AT COMP. LOOKED TO BE OK, PUT CHARGER ON BATTERIES TO CHARGE AFTER I LET BATTERIES CHARGED PARKED TRUCK ON WEST FENCE							

DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
GAS, OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	37175.78

CUSTOMER



BILL TO

CUSTOMER

## SERVICE INVOICE:

## REFERENCE:

DATE ARRIVED	DATE INVOICE	SALES TYPE	ADVISOR	TERMS	CUSTOMER POW		
11/29/2021	11/29/2021						
YEAR	MAKE	MODEL	VIN	ENGINE HOURS	IN SERVICE	Component Serial #	ODOMETER
2014	MACK	600	1M1AN07Y2EM016136	0	7/26/2013		624952

## Sold Operations

## JOB #1 212

## SERVICE - REPAIR FUEL SYSTEM

## COMPLAINT

REPAIR FOR AIR IN FUEL - ADVISE -

## CAUSE

## CORRECTION

INSPECTED FOR COMPLAINT OF AIR IN THE FUEL. VERIFIED THE COMPLAINT. REMOVED AIR INTAKE, CROSSOVER PIPE, AND COMPRESSOR TUBE. REMOVED THE VALVE COVER. REMOVED THE ENGINE BRAKE SPRINGS AND SOLENOID. REMOVED ALL ROCKER SHAFT BOLTS AND REMOVED THE ROCKER SHAFT. REMOVED ALL INJECTOR YOKES, INJECTORS, AND INJECTOR CUPS. AFTER DISCONNECTING THE INJECTORS FOUND THAT ALL OF THE INJECTOR CONNECTORS AND THE VCB CONNECTOR WERE ALL BROKEN. ALSO FOUND THE VCB BOLTS TO BE LOOSE AND THE VCB WAS BROKEN. REPLACED THE VCB AND PUT NEW O RINGS ON THE OIL TUBE. REMOVED THE INJECTOR AND VCB CONNECTORS AND REPLACED THEM WITH NEW. CLEANED THE OIL OUT OF ALL BOLTS HOLES AND INSTALLED NEW INJECTOR CUPS. INSTALLED INJECTORS WITH NEW HOLD DOWN BOLTS AND TORQUED. REMOVED THE EB PISTONS AND TIGHTENED THEM AND THEN REINSTALLED THE ROCKER SHAFT TO SPEC. ADJUSTED THE OVERHEAD TO SPEC. PROGRAMMED THE ECM WITH THE NEW INJECTOR TRIM CODES. REINSTALLED THE VALVE COVER, CROSSOVER PIPE, INJECTOR TUBE, AND AIR INTAKE. WARMED THE TRUCK UP TO TEMP AND RESET THE CYLINDER BALANCE VALVES. PULLED TRUCK INTO THE WASH BAY AND WASHED THE OIL AND COOLANT OFF FROM REPAIRS. ALL FASTENERS WERE TORQUED TO SPECIFICATIONS. TEST DROVE AND CHECKED FOR FAULTS AND PROPER OPERATION, OKAY.

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
2	126M/1677370	SEALING RING		
1	126M/20409386	INSULATOR		
6	126M/20429371	INSULATOR		
1	126M/20526428	SEALING RING		
2	126M/20852765	SEALING RING		
1	126M/20972295	FUEL FILTER		
1	126M/21596644	CONTROL VALVE		
1	126M/21737481	FUEL FILTER INSERT		
1	126M/22618326	SEALANT		
6	126M/8131393	RETAINER		
1	126M/85143385	UNIT INJECTOR KIT		
-1	126M/85143385-CORE	UNIT INJECTOR KIT		
1	126M/85143385-CORE	UNIT INJECTOR KIT		

### Sold Operations (Cont.)

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
7	126M/983472	CABLE TIE		
1	126V/21458307	OVERFLOW VALVE		
	LABOR 212	REPAIR FOR AIR IN FUEL - ADVISE		
	LABOR 212	REPAIR FUEL SYSTEM		
1	FRT	FREIGHT		

Prepay:      Parts      Labor:      Misc:      Sublet:      \$5,714.65

#### JOB #2 258

#### SERVICE - AFTERTREATMENT SYSTEMS & FAULT TRACING

COMPLAINT  
CAUSE  
CORRECTION

REPAIR FOR 5 MPH DERATE - ADVISE -

INSPECTED FOR COMPLAINT OF ENGINE DERATE. CHECKED FAULTS. FOUND P113712 OIL THERMOSTAT CIRCUIT SHORTED TO BATTERY. FOUND THE OIL THERMOSTAT FAILED. BOTH OF THE OIL THERMOSTAT MOUNTING BOLTS WERE STRIPPED OUT. USED BOLT EXTRACTORS TO REMOVE THE BOLTS. REPLACED OIL THERMOSTAT AND MOUNTING BOLTS. REPLACED THE 7TH INJECTOR. WHILE ATTEMPTING TO REGEN THE TRUCK THE TEMPERATURES WERE FLUCTUATING UP AND DOWN AND THE PROGRESS BAR STAYED AT 0%. MADE REPAIRS FOR COMPLAINT ON JOB 1 PERFORMED A CRYSTAL SUB REGEN AFTER REPAIRS. TEMPERATURES WERE AT SPEC AND REGEN COMPLETED. ALL FASTENERS WERE TORQUED TO SPECIFICATIONS.

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
1	126M/21407621	INJECTOR		
1	126M/23013323	CONTROL VALVE		
	LABOR 258	REPAIR FOR 5 MPH DERATE - ADVISE		

Prepay:      Parts:      Labor:      Misc:      Sublet:      \$1,051.94

#### JOB #3 260

#### SERVICE - REPAIR COOLING SYSTEM

COMPLAINT  
CAUSE  
CORRECTION

REPAIR FOR ENGINE FAN CLUTCH - ADVISE -

FOUND THE FAN CLUTCH HARNESS RIPPED APART AND THE FAN BLADES DAMAGED. WILL NEED A FAN CLUTCH AND FAN. CUSTOMER DECLINED REPAIRS.

QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTD PRICE
		REPAIR FOR ENGINE FAN CLUTCH - ADVISE		

Prepay:      Parts:      Labor:      Misc:      Sublet:

#### Sold Operations Totals

Prepay:      Parts: \$      Labor:      Misc:      Sublet: \$0.00      \$6,882.59

	ESTIMATED	BILLED
LABOR		
PARTS		
MISC		
SUBLET		
Prepay		
SUBTOTAL		
SHOP SUPPLIES		
MISC SUPPLIES		
TAX		
TOTAL		\$6,967.59

## INVOICE

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BUS:

CELL:

## SERVICE ADVISOR.

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DEL DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT
26JUL13 DD			08:42 27SEP19			
R.O. OPENED	READY	OPTIONS:	1) UNIT D550			
15MAR19	30SEP19					

LINE OPCODE TECH TYPE HOURS

SUBL LEAK TEST PO# 685116

LIST NET TOTAL

PARTS:

LABOR:

OTHER:

TOTAL LINE AE:

564.00

526606 \*PULLED TRUCK IN SHOP. PULLED THE AIR FILTER HOUSING OFF AND PUT BOLTS ON LIP AT BOTTOM OF WINDSHIELD. PULLED THE VALVE COVER OFF FOR INSPECTION. IT STILL HAD WHITE MILKY STUFF ON IT. REMOVE CYL HEAD FOR INSPECTION SENT TO MACHINE SHOP TO BE CHECKED ALL OK.

\*\*\*\*\*

AF\*\*INSTALL INJECTOR CUPS TO PRESURE UP HEAD

200 INSTALL INJECTOR CUPS TO PRESURE UP HEAD

2539 CS

PARTS:

LABOR:

OTHER:

TOTAL LINE AF:

157.00

526606 INSTALLED INJECTOR CUPS FOR THE MACHINE TO BE ABLE TO PRESURE UP CYL HEAD

\*\*\*\*\*

AG\*\*ZN1 - CHARGES FOR TIME AND MILEAGE FOR SERVICE CALL WITHIN ZONE 1.

ZN1 ZN1 - CHARGES FOR TIME AND MILEAGE FOR

SERVICE CALL WITHIN ZONE 1.

2539 CS

PARTS:

LABOR:

OTHER:

TOTAL LINE AG:

157.00

\*\*\*\*\*

AH\*\*LEVEL 1 OVERHAUL

CAUSE: FOUND #5 LINER LEAKING , NEED TO REPLACE ALL 6 LINERS DUE TO RUST

200 LEVEL 1 OVERHAUL

606 CS

1372 CS

3145 CS

1 85138502 ENGINE OVERHAUL KIT

ORDERED IN MAY BE DOWN FIRST ISLE

10 W30050498 2" ROLOC

2 SILO5103 QD ELECTRONIC CLEANER, 11

4 B1396 ABRASIVE ROLOC DISC

DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
GAS, OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

CUSTOMER



## INVOICE

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HOME:  
BUS:CONT:4  
CELL:

## SERVICE ADVISORY

UNIT

YEAR

MAKE/MODEL

VIN

LICENSE

MILEAGE IN/ OUT

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OPTIONS:

15MAR19

30SEP19

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
4	5166*24010*	PERMATEX	MEDIUM	STRENGTH			
1	M720	CHLORINATED	BRAKE	CLEAN			
1	20824906	OIL	PUMP				
	CORE	CHARGE	C				
1	20824910	OIL	STRAINER				
6	994445	FLANGE	SCREW				
24	990861	FLANGE	SCREW				
1	21377346	OIL	PAN				
2	21707136	OIL	FILTER				
1	21707135	OIL	FILTER				
12	4771*AFC11100F*	PRESTONE	RED	50/50			
1	20972295	FUEL	FILTER				
1	21737481	FUEL	FILTER	INSERT			
1	21937331	COOLANT	FILTER				
1	25100042	FILTER	CARTRIDGE				
12	996457	FLANGE	SCREW				
12	993167	SPACER	SLEEVE				
12	21344787	FLANGE	SCREW				
24	20486228	FLANGE	SCREW				
1	21293367	SEALING	STRIP				
	DELIVER	TO	BAY	16			
2	22275838	SEALING	RING				
7	21092243	SEALING	RING				
1	21434720	CONNECTION	PIPE				
4	1547253	SEALING	RING				
2	967343	O-RING					
-1	20824906	CORE	RETURN				
36	9853*10W30BULK*	MACK	ENGINE	OIL EOS-4.5 S			
1	20592787	HOSE	CLAMP				

PARTS: LABOR: OTHER: TOTAL LINE AH: 12664.36  
 526606 PULLED THE PISTON AND LINERS FROM 1,2,3,AND 4. MOVED THE  
 ORINGS IN THE BLOCK. CLEANED THE RUST OUT OF THE ENGINE BLOCK WITH BEAD  
 HONE. STARTED CLEANING THE ORING AREAS IN THE BLOCK. BOUGHT A TOOL TO  
 HELP IN THE CLEANING. GOT WITH FOREMAN AND SHOWED HIM THERE IS SO MUCH

DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
GAS, OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

CUSTOMER

## INVOICE

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HOME:

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SERVICE ADVISOR

UNIT

YEAR

MAKE/MODEL

VIN

LICENSE

MILEAGE IN/ OUT

TAG

D550

14

MACK CHU613

1M1AN07Y2EM016136

694241

526606/526732

TD550

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OPTIONS:

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30SEP19

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
PITTING AND GROOVES IN THE ENGINE BLOCK ORING SEALING SURFACE. HE SAID TO KEEP GOING TO SEE IF I CAN CLEAN IT UP. AFTER ABOUT 10 HOURS OF I HAVE REMOVED AS MUCH RUST AS I CAN BUT STILL HAVE PITS AND GROOVES AND IF I TAKE THE METAL DOWN THEN THE ORING WONT SEAT RIGHT AND IT COULD LEAK OR ROLL A ORING. UNIT WAS ROAD TESTED 52 MILES BROUGHT BACK CHECK FOR LEAKS ALL OK							

\*\*\*\*\*  
 AI\*\*DUE TO THE AMOUNT OF RUST NEED TO RESURFACE WERE THE O-RING SEALS TO THE LINER

CAUSE: NEED TO CLEAN ALL 6 LINERS WERE THE O-RING SEALS TO LINER  
 200 DUE TO THE AMOUNT OF RUST NEED CLEAN WERE  
 O-RINGS SEALS TO THE LINER

606 CS  
 1372 CS

- 2 363SB SPREADER
- 1 41407 320 WET DRY
- 1 41406 220 WER DRY
- 1 32021 800 WET DRY
- 1 32035 1000 WET DRY
- 1 M720 CHLORINATED BRAKE CLEAN
- 2 22275838 SEALING RING
- 1 21780376 SEALING RING
- 6 984735 FLANGE SCREW
- 8 8192804 FLANGE SCREW
- 6 990810 FLANGE SCREW
- 1 85137676 INSTALLATION KIT
- BAY 16
- 4 21528673 SHOULDER SCREW
- 6 8192804 FLANGE SCREW
- 1 1547252 SEALING RING
- 1 21383310 GASKET
- 1 4250\*122485\* MOBIL DELVAC 1300 SUPER 1

PARTS: LABOR: OTHER:

TOTAL LINE A1:	3922.92
DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
GAS, OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

CUSTOMER