

TEC

THORNE'S EXCAVATING COMPANY, LLC
SINCE 1963

EQUIPMENT INFORMATION		EQUIPMENT DOWNTIME	COMPONENT CODES	
QUIP. # <u>0111</u>		HOURS _____ DAYS _____	BASIC MACHINE HYDRAULIC ENGINE IMPLEMENTS	
MAKE <u>Mack</u>		REASON _____	POWER TRAIN ELECTRIC DRIVE TRAIN UNEXPLAINED	
MODEL <u>12' T-tan</u>		PARTS _____ LABOR _____	COMPONENT LOCATION	
SERIAL # _____		OTHER _____	FRONT REAR LEFT RIGHT UPPER LOWER	
HOUR METER _____			OTHER _____	
MILES <u>282k mi</u>				
REASON FOR FAILURE: BROKEN WORN ABUSE LOOSE SEIZED		DATE <u>6-21-23</u> DATE COMPLETED <u>6-30-23</u>		
OVERHEAT PLANNED CONTAM LEAKING NOISY SCRATCH		MECHANIC <u>Al</u>		
SMOKES SHORTED VIBRATE OTHER _____		JOB NAME/LOCATION <u>Shop</u>		
PROBLEM: <u>Temp sensor service</u>		JOB NUMBER _____		
REPAIRED: <u>serviced</u>				
PARTS: <u>Sensor</u> <u>124.24</u> <u>Mc Mahon Trucks</u>				
<u>Filters</u> <u>138.76</u> <u>Tenn Filter</u>				



This service bulletin replaces bulletin 284-01 dated 5.2010.

Date	Group	No.	Release	Page
7.2012	284	01	03	1(4)

Engine Sensor Locations MP7, MP8, MP10 US2010

Engine Sensor Locations

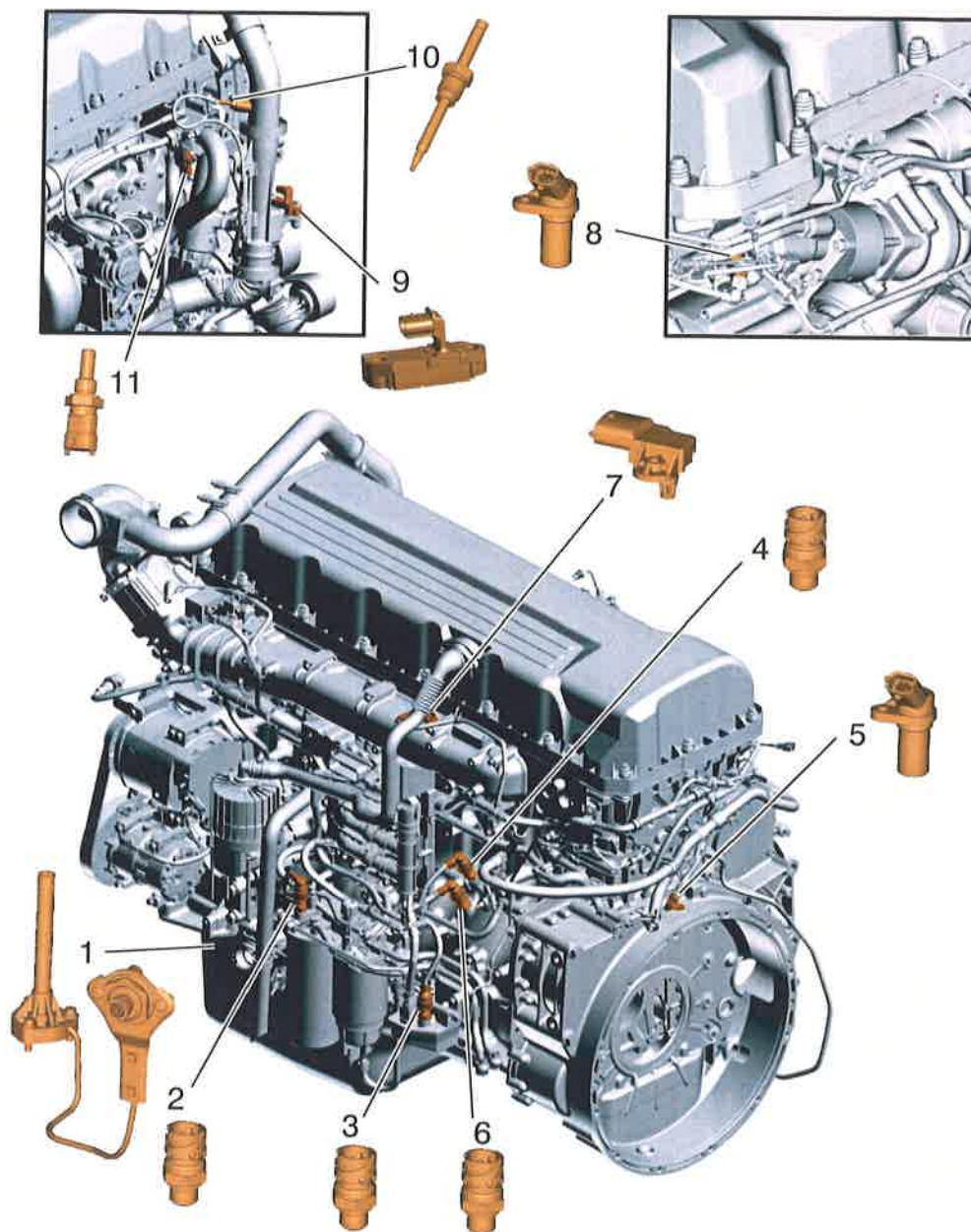
The information in this document shows the main engine sensor locations on the MACK MP7, MP8 and MP10 US2010 engines used in MACK trucks. Sensor locations may vary depending on application.

Contents

- "Engine Sensor Locations", page 2

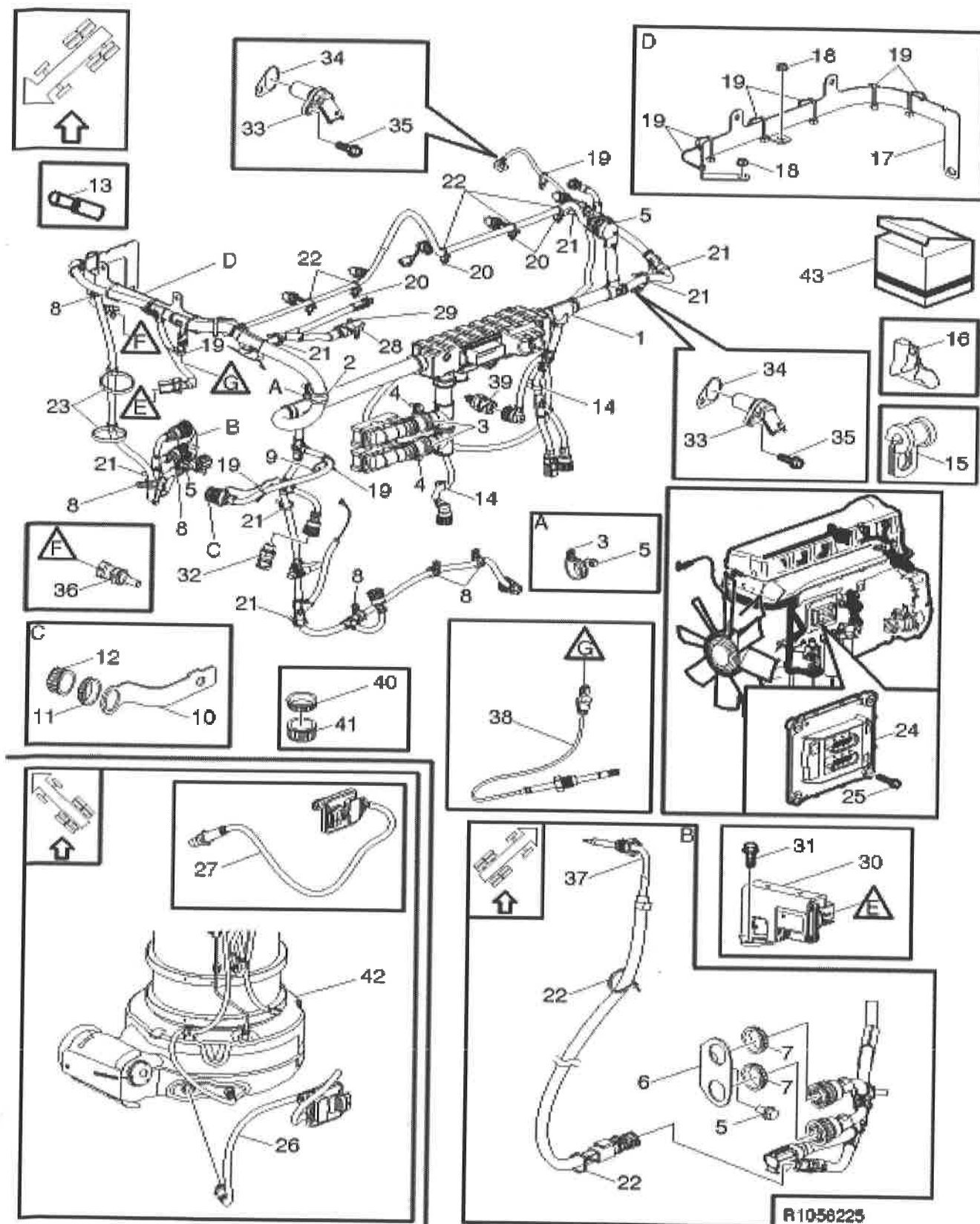
Note: Information is subject to change without notice. Illustrations are used for reference only and may differ slightly from the actual vehicle being serviced. However, key components addressed in this information are represented as accurately as possible.

MP8 US2010



- 1 Engine Oil Level/Temperature Sensor
- 2 Fuel Pressure Sensor
- 3 Aftertreatment Fuel Pressure Sensor
- 4 Engine Oil Pressure (EOP) Sensor
- 5 Crankshaft Position (CKP) Sensor
- 6 Crankcase pressure (CCP) Sensor

- 7 Intake Air Temperature/Pressure Sensor
- 8 Camshaft Position (CMP) Sensor
- 9 Engine Exhaust Gas Recirculation (EGR) Differential Sensor
- 10 Exhaust Gas Recirculation (EGR) Temperature Sensor
- 11 Engine Coolant Temperature (ECT) Sensor



	Pos	Part No.	A	PS	Description	Notes			
☐	1	21397251	1		wiring harness	Engine			
☐	2	947827	1		clamp	25.4			
☐	3	949997	3		clamp	31.8			
☐	4	946173	2		flange screw	M8*20, M8x20			
☐	5	946440	X		flange screw	M8*16, M8x16			
☐	6	3832422	1		bracket				
☐	7	3963413	2		ring				
☐	8	949746	6		clamp	12.7			
☐	9	965571	1		bracket	1*11*40*3			
☐	10	20577191	1		bracket				
☐	11	3963413	1		ring				
☐	12	20374157	1		cap				
☐	13	21018335	1		cap	For alternator terminal			
☐	14	3121512	2		retainer	11*15			
☐	15	20960413	1		attaching clamp	To secure 7th Inj.pigtail			
☐	16	20857215	1		heat shield	For cam eng speed sensor			
☐	16	20857215	1		heat shield	For coolant temp sensor			
☐	17	21093870	1		bracket				
☐	18	945408	2		flange nut	M8*8, M8x8			
☐	19	948211	10		cable tie; black	73			
☐	20	8131393	6		retainer				
☐	21	980881	7		cable tie; black	45			

☐	22	983472	X	cable tie; gray	35			
☐	23	20562463	2	retainer; black				
☐	24	21042371	1	control unit	EMS			
☐	25	947760	4	flange screw	M8*40, M8x40			
☐	26	21567764	1	sensor; nox 600mm				
☐	27	21567763	1	sensor; nox 600mm				
☐	28	21097978	1	sensor; Boost pressure and temp.				
☐	29	946544	1	flange screw	M6*16			
☐	30	21304786	1	pressure sensor	Differential, EGR DP			
☐	31	946173	2	flange screw	M8*20, M8x20			
☐	32	20796744	1	pressure sensor; Crankcase pressure				
☐	33	20513343	2	sensor; Engine speed				
☐	34	20556179	X	shim	For engine speed sensor			
☐	35	946544	2	flange screw	M6*16			
☐	36	20513340	1	sensor; coolant temperature				
☐	37	21164792	1	temperature sensor	Compressor discharge temp			
☐	38	21164790	1	temperature sensor	EGR Cooler			
☒	39	21302639	1	pressure sensor; Fuel & Oil; oil pressure				
☐	40	3963413	2	ring				
☐	41	20374157	2	cap				
☐	42		X NS		Emissions, After-treatmnt			
☐	43	21462031	1	kit; sensor connector	EGR DP Sensor Connector			

Chassis ID	Path
M998 1358	284/Parts/TB-129313885-2/Engine, Control System
Model	Identity
TD	TB-129313885-2

Engine, Control System (Identity: TB-129313885-2)

A:

Pos	Part No.	A	Description	Notes		
16	20857215	1	heat shield	For cam eng speed sensor		
16	20857215	1	heat shield	For coolant temp sensor		
28	21097978	1	sensor; Boost pressure and temp.			
30	21304786	1	pressure sensor	Differential, EGR DP		
32	20796744	1	pressure sensor; Crankcase pressure			
36	20513340	1	sensor; coolant temperature			
37	21164792	1	temperature sensor	Compressor discharge temp		
38 	21164790	1	temperature sensor	EGR Cooler		
39	21302639	1	pressure sensor; Fuel & Oil; oil pressure			
43	21462031	1	kit; sensor connector	EGR DP Sensor Connector		

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SINCE 1963

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MAKE <u>Mack</u>	REASON _____	POWER TRAIN ELECTRIC DRIVE TRAIN UNEXPLAINED																							
MODEL <u>12' Titan</u>	PARTS _____ LABOR _____	COMPONENT LOCATION																							
SERIAL # _____	OTHER _____	FRONT REAR LEFT RIGHT UPPER LOWER																							
HOOR METER _____		OTHER _____																							
MILES <u>255th mi.</u>																									
REASON FOR FAILURE: BROKEN WORN ABUSE LOOSE SEIZED		DATE: <u>9-13-23</u>	DATE COMPLETED <u>10-16-23</u>																						
OVERHEAT PLANNED CONTAM LEAKING NOISY SCRATCH		MECHANIC <u>Ben</u>																							
SMOKES SHORTED VIBRATE OTHER _____		JOB NAME/LOCATION <u>Shop</u>	JOB NUMBER _____																						
PROBLEM: <u>computer saying oil pressure loss</u>																									
REPAIRED: <u>replaced oil pump, coolant reservoir, reduction valves, case press switch, A/C comp. & drier, 2 relays & 2 head lamps.</u>																									
<table border="0"> <tr> <td>2-lamps</td> <td>34.⁵⁰</td> <td>Napa</td> </tr> <tr> <td>relays</td> <td>122.⁵⁰</td> <td>McMahon Trucks</td> </tr> <tr> <td>turn coolant reservoir</td> <td>784.¹⁰</td> <td>McMahon Trucks</td> </tr> </table>					2-lamps	34. ⁵⁰	Napa	relays	122. ⁵⁰	McMahon Trucks	turn coolant reservoir	784. ¹⁰	McMahon Trucks												
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MAKE <u>Mack</u>		REASON	POWER TRAIN ELECTRIC DRIVE TRAIN UNEXPLAINED	
MODEL <u>12' Titan</u>		PARTS LABOR	COMPONENT LOCATION	
SERIAL # _____		OTHER _____	FRONT REAR LEFT RIGHT UPPER LOWER	
HOUR METER _____			OTHER _____	
MILES _____				
REASON FOR FAILURE: BROKEN WORN ABUSE LOOSE SEIZED			DATE: _____ DATE COMPLETED <u>10-23-20</u>	
OVERHEAT PLANNED CONTAM LEAKING NOISY SCRATCH			MECHANIC <u>Ben</u>	
SMOKES SHORTED VIBRATE OTHER _____			JOB NAME/LOCATION <u>Shop</u>	JOB NUMBER _____
PROBLEM: <u>no headlamps</u>				
REPAIRED: <u>replaced headlamp harness</u>				
PARTS: <u>harness</u> <u>229.14</u> <u>McMahon Trucks</u>				

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EQUIP. # <u>0111</u>		HOURS _____ DAYS _____		BASIC MACHINE HYDRAULIC ENGINE IMPLEMENTS	
MAKE <u>Mack</u>		REASON _____		POWER TRAIN ELECTRIC DRIVE TRAIN UNEXPLAINED	
MODEL <u>12' Titan</u>		PARTS _____ LABOR _____		COMPONENT LOCATION	
SERIAL # _____		OTHER _____		FRONT REAR LEFT RIGHT UPPER LOWER	
HOUR METER _____				OTHER _____	
MILES <u>28</u> <u>mi</u>					
REASON FOR FAILURE: BROKEN WORN ABUSE LOOSE SEIZED				DATE <u>10-4-24</u> DATE COMPLETED <u>10-18-24</u>	
OVERHEAT PLANNED CONTAM LEAKING NOISY SCRATCH				MECHANIC <u>ALL</u>	
SMOKES SHORTED VIBRATE OTHER _____				JOB NAME/LOCATION	
				<u>Ben at Shop</u>	
JOB NUMBER					
PROBLEM: <u>check over</u>					
REPAIRED: <u>removed Transmission. Sent to repair facility</u>					
<u>for warranty</u>					
<u>Installed Transmission</u>					
25-					
PARTS: <u>belt (alt) 080550HD 64.00 NAPA</u>					
<u>Air valve 58.00 Fleetpride</u>					

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EQUIPMENT INFORMATION		EQUIPMENT DOWNTIME	COMPONENT CODES	
EQUIP. # <u>0111</u>	HOURS _____ DAYS _____ REASON PARTS _____ LABOR _____ OTHER _____	BASIC MACHINE HYDRAULIC ENGINE IMPLEMENTS		
MAKE <u>Mack</u>		POWER TRAIN ELECTRIC DRIVE TRAIN UNEXPLAINED		
MODEL <u>12' Titan</u>		COMPONENT LOCATION		
SERIAL # _____		FRONT REAR LEFT RIGHT UPPER LOWER		
HOUR METER _____		OTHER _____		
MILES _____				
REASON FOR FAILURE: BROKEN WORN ABUSE LOOSE SEIZED		DATE: _____ DATE COMPLETED <u>1-13-25</u>		
OVERHEAT PLANNED CONTAM LEAKING NOISY SCRATCH		MECHANIC <u>Ben</u>		
SMOKES SHORTED VIBRATE OTHER _____		JOB NAME/LOCATION <u>To Shop</u>		
PROBLEM: <u>broken axle</u>		JOB NUMBER _____		
REPAIRED: <u>cleaned out and flushed front Diff.</u>				
<u>replaced left front axle</u>				
PARTS: <u>axle</u> <u>856.89</u> <u>McMahon Trucks</u>				

CUSTOMER #: F7711

128023SNV


McMahon
TRUCK CENTERS
NASHVILLE

 THORNES EXCAVATING CO LLC
 468540 050

INVOICE

 624 OLD HORN SPRINGS RD
 LEBANON, TN 37087

PAGE 1

HOME: 615-444-5142 CONT: 615-444-5142

 161 Charter Place
 Lavergne TN, 37086
 (615) 793-5600 Fax: (615) 793-5610

www.mcmahontrucks.com

BUS: CELL:

SERVICE ADVISOR: 1725 DWAYNE VICKERS

REFERENCE #	YEAR	MAKE/MODEL	SERIAL NUMBER	LICENSE	MILEAGE	TAG
	12	MACK TD713	1M1BD02Y6CM001358		283880/283880	JS1358
DEL DATE	FLEET #	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE
11MAY11 DD		15:00	17AUG23	205.00	IBS	22AUG23

R.O. OPENED READY NOTE:

11:44 02AUG23 09:50 22AUG23

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
A	09RC	- PERFORM ROAD CALL TO LOCATION OF UNIT AT 624 OLD HORN SPRINGS RD, LEBANON, TN					
	09RC	- PERFORM ROAD CALL TO LOCATION OF UNIT AT 624 OLD HORN SPRINGS RD, LEBANON, TN					
		5023	CPM				
		7151	CPM				
PARTS:		0.00	LABOR:	400.00	OTHER:	0.00	TOTAL LINE A: 400.00

TECH 7151

8-10-23

-DROVE TO LOCATION OF TRUCK

-DROVE FROM LOCATION OF TRUCK

8-15-23

-DROVE TO LOCATION OF TRUCK

-DROVE FROM LOCATION OF TRUCK

8-16-23

-DROVE TO LOCATION OF TRUCK

-DROVE FROM LOCATION OF TRUCK

TECH 5023 LINE A 8/17/23

TO CUSTOMER LOCATION TO LOOK AT REGEN ISSUE

BACK TO SHOP

B 02INJ6 - INJECTOR 1 TO 6 PACK INC RUN OVERHEAD EXCLUDES REFUSE MODELS

02INJ6 02INJ6 - INJECTOR 1 TO 6 PACK INC RUN

OVERHEAD EXCLUDES REFUSE MODELS

7151 CPM

3075.00 3075.00

2 85134750 1873053-999-202:MACKX SEALANT

46.46

1 22618326 1873053-999-085:MACKX SEALANT

61.39

6 21415409 2145045-008-000:MACKX ROCKER ARM

4624.92

CORE CHARGE C

450.00 450.00

1 FREIGHT FREIGHT

150.00

-6 21415409 2145045-008-000:MACKX CORE RETURN

-450.00

PARTS: 4882.77 LABOR: 3075.00 OTHER: 0.00 TOTAL LINE B: 7957.77


McMahon
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NASHVILLE

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Lavergne TN, 37086

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Disclaimer of Warranties

Any warranties on the products sold herein are those made by the manufacturer of those products. Seller hereby expressly disclaims all warranties either express or implied, including any implied warranties of merchantability or fitness for a particular purpose (regarding any products or services provided, unless otherwise indicated on the service repair order). This dealership neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of said products or services. This disclaimer by the dealership in no way affects the terms or performances of the manufacturer's warranty.

CUSTOMER SIGNATURE

DESCRIPTION

TOTALS

LABOR AMOUNT

PARTS AMOUNT

CORE CHARGES

SUBLET AMOUNT

MISC. CHARGES

TOTAL CHARGES

LESS INSURANCE

SALES TAX

PLEASE PAY
THIS AMOUNT

CUSTOMER COPY

CUSTOMER #: F7711

128023SNV


McMahon
TRUCK CENTERS
NASHVILLE

THORNES EXCAVATING CO LLC

468540 050

624 OLD HORN SPRINGS RD

LEBANON, TN 37087

HOME:615-444-5142 CONT:615-444-5142

BUS:

CELL:

INVOICE

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 161 Charter Place
 Lavergne TN, 37086
 (615) 793-5600 Fax: (615) 793-5610
 www.mcmahontrucks.com

SERVICE ADVISOR: 1725 DWAYNE VICKERS

REFERENCE #	YEAR	MAKE/MODEL	SERIAL NUMBER	LICENSE	MILEAGE	TAG
	12	MACK TD713	1M1BD02Y6CM001358		283880/283880	JS1358
DEL DATE	FLEET #	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE
11MAY11 DD		15:00 17AUG23		205.00	IBS	22AUG23

R.O. OPENED	READY	NOTE:					
11:44 02AUG23	09:50 22AUG23						
LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL

TECH 7151

8-10-23

-REMOVED AIR BOX PIPES

-REMOVED AIR COMPRESSOR INLET PIPE

-REMOVED VALVE COVER

-DRAIN COOLANT

-REMOVED ROCKER SHAFT

-CHECKED OVER PISTONS IN THE EXHAUST ROCKERS

-FOUND 4 PISTONS ARE LOOSE

 -SUGGESTED TO CUSTOMER TO REPLACE ALL 6 BECAUSE THE OTHER TWO WILL
 NOT BE FAR BEHIND AND WILL CAUSE ISSUES IN THE FUTURE

-ORDERED ALL SIX ROCKERS

-REMOVED OLD INJECTORS

-INSTALLED NEW INJECTORS

8-15-23

-REINSTALLED ROCKER SHAFT

-RAN OVERHEAD

-FILLED COOLANT

-INSTALLED VALVE COVER

-INSTALLED AIR COMPRESSOR INLET PIPE

-INSTALLED AIR BOX PIPING

8-16-23

 -CAME BACK OUT DUE TO TRUCK MADE A POPPING NOISE WHEN IT WAS
 RUNNING AND LOST ALL OIL PRESSURE

 -REMOVED VALVE COVER AND FOUND THE SEAL ON THE ENGINE BRAKE CAME
 OUT

 -REINSTALLED OIL SEAL AND STARTED TRUCK TO FIND OUT IF THE OIL
 PRESSURE CAME BACK (GOOD)

-INSTALLED VALVE COVER

 -TRUCK WAS MAKING A RADDLING NOISE AND FOUND THE NOISE WAS COMING
 FROM THE EGR COOLER

-CUSTOMER WILL RUN A PARKED REGENERATION IN THE MORNING


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Disclaimer of Warranties

Any warranties on the products sold herein are those made by the manufacturer of those products. Seller hereby expressly disclaims all warranties, either express or implied, including any implied warranties of merchantability or fitness for a particular purpose (regarding any products or services provided, unless otherwise indicated on the service repair order). This dealership neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of said products or services. This disclaimer by the dealership in no way affects the terms or performances of the manufacturer's warranty.

CUSTOMER SIGNATURE

DESCRIPTION

TOTALS

LABOR AMOUNT

PARTS AMOUNT

CORE CHARGES

SUBLET AMOUNT

MISC. CHARGES

TOTAL CHARGES

LESS INSURANCE

SALES TAX

**PLEASE PAY
THIS AMOUNT**

CUSTOMER COPY

CUSTOMER #: F7711

128023SNV


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NASHVILLE

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PAGE 3

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BUS:	CELL:	SERVICE ADVISOR: 1725 DWAYNE VICKERS					
REFERENCE #	YEAR	MAKE/MODEL	SERIAL NUMBER	LICENSE	MILEAGE	TAG	
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DEL DATE	FLEET #	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE	
11MAY11 DD		15:00	17AUG23	205.00	IBS	22AUG23	

R.O. OPENED	READY	NOTE:					
11:44 02AUG23	09:50 22AUG23						
LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL

C NO REPAIR

1 no repair on this line

7151 CPM

5023 CPM

PARTS: 0.00 LABOR: 0.00 OTHER: 0.00 TOTAL LINE C: 0.00

D** NO REPAIR

1 no repair on this line

7151 CPM

PARTS: 0.00 LABOR: 0.00 OTHER: 0.00 TOTAL LINE D: 0.00

E** REPLACE ROCKER PISTONS ADDL W/INJ REPLACEMENT

02RKRPIST REPLACE ROCKER PISTONS ADDL W/INJ

REPLACEMENT

7151 CPM

492.00 492.00

ENVIR Environmental Fee

18.00 18.00

PARTS: 0.00 LABOR: 492.00 OTHER: 18.00 TOTAL LINE E: 510.00

TECH 7151

8-15-23

-REMOVED ALL ROCKERS OFF ROCKER SHAFT

-INSTALLED ALL ROCKERS AND NEW EXHAUST ROCKERS ON THE ROCKER SHAFT

F** NO REPAIR

1 no repair on this line

5023 CPM

PARTS: 0.00 LABOR: 0.00 OTHER: 0.00 TOTAL LINE F: 0.00

TECH 5023 LINE F

8/16/23

TO CUSTOMER LOCATION TO DROP OFF SHOP TOOLS TO JUSTIN


McMahon
TRUCK CENTERS
NASHVILLE

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 www.mcmahontrucks.com

DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
CORE CHARGES	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
CUSTOMER SIGNATURE	PLEASE PAY THIS AMOUNT

CUSTOMER COPY

CUSTOMER #: F7711

128023SNV


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 THORNES EXCAVATING CO LLC
 468540 050

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HOME: 615-444-5142 CONT: 615-444-5142

BUS:

CELL:

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SERVICE ADVISOR: 1725 DWAYNE VICKERS

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R.O. OPENED READY NOTE:

11:44 02AUG23 09:50 22AUG23

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
BACK TO SHOP							

G** 02GEN - DIAG REGEN/SURING

02GEN 02GEN - DIAG REGEN/SURING

5023 CPM

580.15 580.15

DIAG Computer Hook-Up Fee

55.00

55.00

PARTS: 0.00 LABOR: 580.15 OTHER: 55.00 TOTAL LINE G: 635.15

TECH 5023 LINE G

CHECKED CODES UNIT HAS SCR DERATE CODES

WENT TO TRY AND PERFORM OBFCT FOUND NO DPF/SCR SENSORS WERE READING.

CHECKED POWER TO ACM, IT HAS NO POWER

CHECKED BATTERY CONNECTIONS-

FOUND POWER FOR ACM WAS NOT HOOKED UP.

HOOKED UP POWER AND ACM POWERED UP

CLEARED CODES AND RAN OBFCT NO ISSUES ALL SENSORS WORK AND ARE IN SPEC

ESTIMATE: 0.00 17AUG23 09:09 SA: 1725

CONTACT:

CUSTOMER PAY SHOP SUPPLIES FOR REPAIR ORDER

200.00

Customer requesting injectors be replaced ** THANK YOU FOR YOUR BUISNESS **

FOR IBS CUSTOMERS

REMIT TO:

INTERSTATE BILLING SVC

P.O. BOX 2208

DECATUR, AL 35609-2208

FOR MVP CUSTOMERS:

REMIT TO:

N.AMERICAN TRANS SRV

P.O. BOX 7247-6171

PHILADELPHIA, PA 19170


McMahon
TRUCK CENTERS
NASHVILLE

 161 Charter Place
 Lavergne TN, 37086
 (615) 793-5600 Fax: (615) 793-5610
 www.mcmahontrucks.com

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CUSTOMER SIGNATURE

DESCRIPTION

TOTALS

LABOR AMOUNT	4547.15
PARTS AMOUNT	4882.77
CORE CHARGES	0.00
SUBLET AMOUNT	0.00
MISC. CHARGES	273.00
TOTAL CHARGES	9702.92
LESS INSURANCE	0.00
SALES TAX	975.14
PLEASE PAY THIS AMOUNT	10678.06

CUSTOMER COPY