



Auburn, WA  
206-443-8500  
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510-638-8100

Richmond, VA  
804-271-9356  
North SLC, UT  
801-292-2453

Houston, TX  
713-434-0995

Toll Free  
888-337-2444

## SERVICE REPORT

DATE: 9-28-13

CUSTOMER <i>Michels Corp</i>		TRIP MILEAGE <i>1882</i>	
CONTACT NAME & NO.			
ADDRESS			
MAKE <i>Terex</i>	MODEL <i>RT110</i>	SERIAL NUMBER <i>161260</i>	HOURS <i>378</i>
		UNIT NUMBER	

SERVICE REQUESTED	<i>Rear Diff Housing sleeve fell out</i>

REPAIRS MADE	<i>Replace <del>Stk</del> Sleeve and Bushing weld Housing and grind back down</i>
<i>Customer needs to grease sleeve regularly</i>	
<i>Need to order new Cab Tilt Cyl (leaking)</i>	

COMMENTS	<i>28 hrs Travel</i>
<i>on site 9 hrs</i>	

PART NUMBER	QNTY	DESCRIPTION	INSTALLED	ORDERED

TECHNICIAN *[Signature]* CUSTOMER SIGNATURE *[Signature]*



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713-456-3086  
TOLL FREE  
888-337-2444

## SERVICE REPORT

DATE: 10/04/2013

CUSTOMER		TRIP MILEAGE		
Michels Corp		1,882		
CONTACT NAME & NO.				
Aaron Brissman/ Job # 41-01-56489				
ADDRESS				
84088 538 & 1/2 Street Meadow Grove, Nebraska 68752				
MAKE	MODEL	SERIAL NUMBER	HOURS	UNIT NUMBER
Terex	RT100 Quadstar	161260	418	BE110101

### SERVICE REQUESTED

LMI console has stopped working. Cannot make any changes in the system. Seems like the operating system is froze up.

### REPAIRS MADE

Order new LMI display from Terex and ship overnight to the customer. Travel to location while waiting for part to ship and deliver.

Arrive on jobsite and check out crane. Find that what the customer stated was correct. LMI console is not functioning at all. Cannot change any functions or operate the crane.


Remove and replace the console. Operate crane and check all LMI functions. The LIM console is now working perfectly. Crane operation is normal. Check all safety cut outs. All working properly. Test run crane for several hours and determine that crane is repaired.

Put crane back into service and travel back to Houston.

### COMMENTS

PART NUMBER	QNTY	DESCRIPTION	INSTALLED	ORDERED
04T122027	1	VGA Display (Greer)	10/4/2013	10/3/2013

  
TECHNICIAN

  
CUSTOMER SIGNATURE





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888-337-2444

## SERVICE REPORT

DATE: 10/04/2013

CUSTOMER Michels Corp		TRIP MILEAGE 1,882	
CONTACT NAME & NO. Aaron Brissman/ Job # 41-01-56489			
ADDRESS 84088 538 & 1/2 Street Meadow Grove, Nebraska 68752			
MAKE Terex	MODEL RT100 Quadstar	SERIAL NUMBER 161260	UNIT NUMBER 418 BE110103

### SERVICE REQUESTED

LMI console has stopped working. Cannot make any changes in the system. Seems like the operating system is froze up.

### REPAIRS MADE

Order new LMI display from Terex and ship overnight to the customer. Travel to location while waiting for part to ship and deliver.

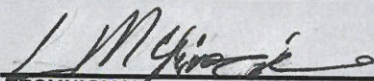
Arrive on jobsite and check out crane. Find that what the customer stated was correct. LMI console is not functioning at all. Cannot change any functions or operate the crane.

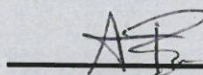
Remove and replace the console. Operate crane and check all LMI functions. The LIM console is now working perfectly. Crane operation is normal. Check all safety cut outs. All working properly. Test run crane for several hours and determine that crane is repaired.

Put crane back into service and travel back to Houston.

### COMMENTS

PART NUMBER	QNTY	DESCRIPTION	INSTALLED	ORDERED
04T122027	1	VGA Display (Greer)	10/4/2013	10/3/2013

  
TECHNICIAN

  
CUSTOMER SIGNATURE





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## SERVICE REPORT

DATE: 10/04/2013

CUSTOMER Michels Corp		TRIP MILEAGE 1,882	
CONTACT NAME & NO. Aaron Brissman/ Job # 41-01-56489			
ADDRESS 84088 538 & 1/2 Street Meadow Grove, Nebraska 68752			
MAKE Terex	MODEL RT100 Quadstar	SERIAL NUMBER 161260	HOURS 418
		UNIT NUMBER BE110101	

### SERVICE REQUESTED

LMI console has stopped working. Cannot make any changes in the system. Seems like the operating system is froze up.

### REPAIRS MADE

Order new LMI display from Terex and ship overnight to the customer. Travel to location while waiting for part to ship and deliver. Arrive on jobsite and check out crane. Find that what the customer stated was correct. LMI console is not functioning at all. Cannot change any functions or operate the crane. Remove and replace the console. Operate crane and check all LMI functions. The LIM console is now working perfectly. Crane operation is normal. Check all safety cut outs. All working properly. Test run crane for several hours and determine that crane is repaired. Put crane back into service and travel back to Houston.

### COMMENTS

PART NUMBER	QNTY	DESCRIPTION	INSTALLED	ORDERED
04T122027	1	VGA Display (Greer)	10/4/2013	10/3/2013

  
TECHNICIAN

  
CUSTOMER SIGNATURE

### SERVICE REPORT

Date: 02-21-14

Customer's Name: \_\_\_\_\_

Customer P. O. # \_\_\_\_\_

Job Location: Houston Yard M/M/T: Terex 1100 Quadstar Hours: 462

Equipment # BE110101 Serial # 161260

Describe Defects & Cause of Failure: Alarm going off in cab, coolant leak, L.F. O/R  
Jack gland leaking, O/R sensor error, cab tilt cylinder leak at  
gland, missing 3 jib pins

Repairs Completed: Alarm in cab low coolant, repair coolant leak and  
fill cooling system. O/R sensor on L.F. dirty, clean sensors and  
error gone. ATB switch cover on main bent and ATB not  
working consistently. Need set screws for main hook pin nuts  
(nuts are loose), Service due on machine and annual inspection almost  
expired 4/26/14

\* O/R Jack gland not leak Warranty  
Cab tilt cylinder →

Qty	Part Number	Description	Ordered	Installed

Recommendations: \_\_\_\_\_

Technician: 

Customer Name: \_\_\_\_\_

Customer Signature: \_\_\_\_\_

Job Complete: \_\_\_\_\_ Labor: Reg \_\_\_\_\_

Yes ☐ No ☐ O.T. \_\_\_\_\_



### SERVICE REPORT

Date: 3-7-14

Customer's Name: Bigge

Customer P. O. # \_\_\_\_\_

Job Location: Bigge Shop

M/M/T: \_\_\_\_\_

Hours: 468

Equipment # BE110101

Serial # 161260

Describe Defects & Cause of Failure: \_\_\_\_\_

Repairs Completed: Add grip tape to top of the boom.

Qty	Part Number	Description	Ordered	Installed
1 roll	C84942 Barnes #	4"X60' grip tape	1	1

Recommendations: \_\_\_\_\_

Technician: Sergio

Customer Name: \_\_\_\_\_

Customer Signature: \_\_\_\_\_

Job Complete: \_\_\_\_\_

Yes ☐ No ☐

Labor: Reg \_\_\_\_\_

O.T. \_\_\_\_\_

### SERVICE REPORT

Date: 03-07-14

Customer's Name: \_\_\_\_\_

Customer P. O. # \_\_\_\_\_

Job Location: \_\_\_\_\_

M/M/T: \_\_\_\_\_

Hours: 465.7

Equipment # BE 110101

Serial # \_\_\_\_\_

Describe Defects & Cause of Failure: \_\_\_\_\_

Repairs Completed: Work on RT 1100 The Buzzer still on  
all Time Biggest Problem with the Air Brakes System  
I still work on it the Electric Schramm. Tow Toward Wheel  
is the Pressure Switch.

Qty	Part Number	Description	Ordered	Installed

Recommendations: \_\_\_\_\_

Technician: Ok

Customer Name: \_\_\_\_\_

Customer Signature: \_\_\_\_\_

Job Complete: \_\_\_\_\_ Labor: Reg \_\_\_\_\_

Yes ☐ No ☒ O.T. \_\_\_\_\_

### SERVICE REPORT

Date: 9-23-14  
Customer's Name: Bigge/TEREX Customer P. O. # 10-02-031143  
Job Location: SL YARD M/M/T: TEREX RT Hours: 484  
Equipment # BEL10101 Serial # 1161260

Describe Defects & Cause of Failure: T/S SWING BRAKE STICKING. TEST HOIST FOR SURGE  
LMI DISPLAY BLANK

Repairs Completed: T/S SWING BRAKE STICKING ON AFTER PEDAL APPLICATION  
FOUND SWING BRAKE RAMP DOWN SET AT 5.0 SEC ADJUSTED  
TO 1.5 SEC BRAKE IS WORKING PROPERLY NOW. SET UP CRANE TO  
TEST HOISTS FOR SURGE FOUND MAIN & AUX SURGING BAD IN THE  
UP DIRECTION IN LOW OR HIGH SPEED WITH OR WITHOUT THROTTLE  
JIM J HAS VIDEO MAIN 4 PARTS 9T BLOCK AUX 1 PART 11,400 LB  
BLOCK - LMI DISPLAY WON'T BOOT UP ALL THE TIME ON START  
UP SCREEN WILL STAY WHITE BUT WILL WORK UNDERNEATH IF YOU  
KNOW WHAT BUTTONS TO PUSH. NEED TO POWER CYCLE UNIT  
TO GET SCREEN TO WORK  
INSTALL ShimS to Counter Weight Rollers & Adjusted Stop Bolts.  
Add up date to Swing motors. Replace Greer Display  
Replace Cab Tilt Cylinder

- 1/2 L 900-100 DAVE 3 1/4  
- 1/2 L 900-100 MIKE 3 1/4

Qty	Part Number	Description	Ordered	Installed

Recommendations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Technician: MIKE G / DAVE D  
Customer Name: \_\_\_\_\_  
Customer Signature: \_\_\_\_\_

Job Complete: Labor: Reg 7 hrs <sup>TOTAL</sup>  
Yes ☐ No ☐ O.T. \_\_\_\_\_



H&E Equipment Services, Inc.  
1700 South Sam Houston Parkway West  
Houston TX 77047-6312  
Tel No. (877) 321-5249  
Fax No. (713) 433-3981

Regional Credit Office  
Phone (844)298-0838  
Fax (281)821-6105

## Invoice Preview

<b>Bill-To-Party</b> BIGGE CRANE AND RIGGING COMPANY ACCOUNTS PAYABLE PO Box 1657 SAN LEANDRO CA 94577	<b>Information</b> Invoice Preview No. 70302892 Order No. 41558678 Customer No. 1014390 PO No. 14-7279 Currency USD Make GV - GROVE CRANE Model RT9130E Serial No. 227631 Customer Eq No. GV060327 H&E Eq No. 10056267 Customer Contact Contact Phone Meter 6278 hrs 0 mile
<b>Ship-To-Party</b> H & E EQUIPMENT SERVICES INC 1700 South Sam Houston Parkway West Houston TX 77047-6312	PO date
<b>Complaints</b>	
<b>Complaint Details</b>	
Complete repair procedure for jib 15-0478	
<b>Causes</b>	
<b>Cause Details</b>	
<b>Corrections</b>	
<b>Correction Details</b>	
07/15 Travel to the job. Removed and replaced swing away connecting lock mechanism on the jib per Manitowoc specs. Primed and painted. Waited while the customer rigs up the jib and performed a load test and machine passed. 07/17 Installed jib on the boom adjusted the bracket. Tested and checked ok.	

ENTERED

*H&E Equipment Services, Inc.*  
*1700 South Sam Houston Parkway West*  
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Invoice Preview

Material	Description	Quantity	Unit Price	Amount
GK03056623	BOOM HANGER BRAC	1 EA	866.27	866.27
		Parts Total		866.27
OS_SERVCS_NONTAX	Mag test	1 EA	560.00	560.00
		Outside Purchases Total		560.00
Truck Mileage				18.00
Environmental				62.06
Shop Supplies				124.13
		Miscellaneous Total		204.19
Service Labor				2,467.50
Subtotal				4,097.96
Tax				256.12
Total Amount				4,354.08
Conditions				
This is SAMPLE INVOICE only. Do not pay.				
Customer Signature _____ Date _____				
Title _____ PO Number _____				



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☒ HOUSTON, TX — 713-433-6411

**877-700-RENT**

**HE-equipment.com**

## SERVICE REPORT

PURCHASE ORDER NO. \_\_\_\_\_

EMPLOYEE NO. 1002683

MACHINE MAKE Grove	MODEL RT 9130	SERIAL NO. 227631	DATE 7-15-11	JOB NO. 41558678
OWNER Billie			USER same	
LOCATION HBE Equipment Services			MACHINE SET-UP Lift	HOOR METER N/A

WORK REQUESTED

WORK PERFORMED

REMOVED AND REPLACE SWING AWAY CONNECTING LOCK MECHANISM-  
ON JIB. AS PER MANITOWOC PROCEDURES. ALSO PRIME AND PAINT.

**FOR INTERNAL USE ONLY:**

☐ FL☐ SL

四

□□

☐ OTHER \_\_\_\_\_☐ OTHER

DATE		MILEAGE		HOURS WORKED		LUNCH TIME		TECHNICIAN HOURS				
M	D	Y	TO	FROM	START	END	START	END	TOTAL HRS	REGULAR	OVERTIME	HOLIDAY
SAT	/	/										
SUN	/	/										
MON	/	/										
TUE	/	/										
WED	7	15	15	<del>0</del>	<del>0</del>	0700	02:30	11:30	1200	7.5		
THURS	/	/										
FRI	/	/										
TOTAL MILEAGE										TOTAL HOURS		

FORM HE-CDSR

CUSTOMER SIGNATURE

DATE \_\_\_\_\_

SERVICE TECHNICIAN SIGNATURE

DATE \_\_\_\_\_

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☐ HOUSTON, TX — 713-433-6411

**HE-equipment.com**

## SERVICE REPORT

PURCHASE ORDER NO.

EMPLOYEE NO. 1000746

MACHINE MAKE Grove	MODEL RT9130E	SERIAL NO. 227631	DATE 7-15-15	JOB NO. 41558678
OWNER Bigge Crane			USER Same	
LOCATION Bigge Yard			MACHINE SET-UP	HOOR METER 6278

WORK REQUESTED	
----------------	--

WORK PERFORMED: Drove to job. Wait for Customer to Rig up jib, to do load test.  
Perform load test, Passed.

**FOR INTERNAL USE ONLY:**

☐ FL☐ SL☐ HL☐ GL☐ OT☐ OTHER

DATE M / D / Y	MILEAGE		HOURS WORKED		LUNCH TIME		TECHNICIAN HOURS			
	TO	FROM	START	END	START	END	TOTAL HRS	REGULAR	OVERTIME	HOLIDAY
SAT / /										
SUN / /										
MON / /										
TUE / /										
WED 7/15/15	3	3	2pm	5pm						
THURS / /										
FRI / /										
TOTAL MILEAGE	10						TOTAL HOURS			

FORM HE-CDSH

CUSTOMER SIGNATURE

DATE \_\_\_\_\_

SERVICE TECHNICIAN SIGNATURE

DATE \_\_\_\_\_



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☐ HOUSTON, TX — 713-433-6411

**877-700-RENT**

**HE-equipment.com**

## SERVICE REPORT

PURCHASE ORDER NO. \_\_\_\_\_

EMPLOYEE NO. 1002683

MACHINE MAKE Grove	MODEL RT 917D	SERIAL NO. 227631	DATE 7-17-2015	JOB NO. 41558678
OWNER BIBBIE CRANE			USER SAME	
LOCATION H3E EQUIPMENT SERVICES			MACHINE SET-UP LIFT	HOOR METER N/A

WORK REQUESTED

WORK PERFORMED

Installed jib back on the stow away position on Boom of crane.  
Also made sure it would work properly.

**FOR INTERNAL USE ONLY:**

☐ FL☐ SL☐ HL

□ GL

☐ OTHER

DATE			MILEAGE		HOURS WORKED		LUNCH TIME		TECHNICIAN HOURS			
M	D	Y	TO	FROM	START	END	START	END	TOTAL HRS	REGULAR	OVERTIME	HOLIDAY
SAT	/	/										
SUN	/	/										
MON	/	/										
TUE	/	/										
WED	/	/										
THURS	/	/										
FRI	7/17	115	08-0	0	0800 AM	2:50 PM	1120 AM	1200 PM	6.5			
TOTAL MILEAGE									TOTAL HOURS			

FORM HE-CDSA

CUSTOMER SIGNATURE

DATE \_\_\_\_\_

SERVICE TECHNICIAN SIGNATURE

DATE \_\_\_\_\_





### SERVICE REPORT

Date: 9-16-16

Customer's Name: MOUNTAIN CRANE

Customer P. O. # \_\_\_\_\_

Job Location: SAN LEANDRO

M/M/T: Terex RT110

QUAD STAR  
HOO

Hours: 2866

Equipment # BE 110101

Serial # 161260

Job # 40-01-009671

Describe Defects & Cause of Failure: \_\_\_\_\_

Repairs Completed: Change oil and Filters grease Completely  
Replace Damaged Outrigger Pad

1 718 0751 O/R Pad ordered  
5 Gallon 15-40 Engine oil  
1 LF 3970 oil Filter

Qty	Part Number	Description	Ordered	Installed
1	AF55015	AIR Filter		X
1	AF55309	" "		X
1	WF2123	Water Filter		X
1	FS 1065	Fuel Filter		X
1	FP 5632	" "		

Recommendations: \_\_\_\_\_

Technician: David Demma

Customer Name: \_\_\_\_\_

Customer Signature: \_\_\_\_\_

Job Complete: \_\_\_\_\_

Yes ☒ No ☐

Labor: Reg X

O.T. \_\_\_\_\_

# BIGGE

Established 1916  
**CRANE and RIGGING CO.**

10700 Bigge Ave.  
San Leandro, CA 94577  
(510) 638-8100

## SERVICE REPORT

Date: 10/24/16

Customer's Name: Ardortech

Customer P. O. # \_\_\_\_\_

Job Location: Shaver Lake CA M/M/T: Terex QuantaStar 1100 Hours: 2950

Equipment # BE110101 Serial # 161260

Describe Defects & Cause of Failure: customer had A2B cable  
Brake on crane.

Repairs Completed: Service call to Shaver Lake  
to Replace A2B Cable on Rxt-1. Replace  
cable set Boom length. Test A2B  
functions crane is Ready to go to work.

Bigge SALESMAN : CHRIS KENT

Qty	Part Number	Description	Ordered	Installed

Recommendations: \_\_\_\_\_

Technician: Jim Nash

Customer Name: \_\_\_\_\_

Customer Signature: \_\_\_\_\_

Job Complete:

Yes ☒ No ☐

Labor: Reg 6

O.T. \_\_\_\_\_



SERVICE REPORT

WO# 018816

Date: 1/18/17  
Customer's Name: Mare Island dry dock Customer P. O. # \_\_\_\_\_  
Job Location: Mare Island M/M/T: Terex Quadstent RT Hours: 3026.4  
Equipment # BE110101 Serial # 161260

Describe Defects & Cause of Failure: Length sensor out of calibration causing  
System overload fault.

Repairs Completed: Zero Length Sensor & Span Sensor # 2 run  
boom out & check for length accuracy, and any error codes

NO CHARGE

Qty	Part Number	Description	Ordered	Installed

Recommendations: \_\_\_\_\_

Technician: Brian Gottingham

Customer Name: Jim Mott

Job Complete:

Yes ☒ No ☐

Labor: Reg \_\_\_\_\_

O.T. 4



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### SERVICE REPORT

Date: 1/19/17

Customer's Name: Marx Island Dry Dock LLC

Customer P. O. # \_\_\_\_\_

Job Location: Vallejo CA

M/M/T: Quandstar 1100 RT

Hours: 3027.4

Equipment # BE110101

Serial # 161260

Describe Defects & Cause of Failure: NO Heat in cab.

Repairs Completed: service call to job site. Troubleshoot  
no heat in cab. Found valve closed. Heat  
is working now.

Qty	Part Number	Description	Ordered	Installed

Recommendations: \_\_\_\_\_

Technician: [Signature]

Customer Name: [Signature]

Customer Signature: \_\_\_\_\_

Job Complete:

Yes ☒ No ☐

Labor: Reg 2 1/2

O.T. \_\_\_\_\_





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### SERVICE REPORT

Date: 9/12/17

Customer's Name: underground construction

Customer P. O. # \_\_\_\_\_

Job Location: Hollister CA

M/M/T: Quadstar 1100 RT

Hours: 3387

Equipment # BE 110101

Serial # 161260

Describe Defects & Cause of Failure: Computer system Fault error

Repairs Completed: Service call to job site. Found Computer was in system Fault error. Zero Boom sections. Pulled cover off Reel Found Broken wire inside Reel. Fixed wire Ran Boom out to check Repair. Charged AC. Put Vent Hose on AC vents. Computer is Back to working.

Qty	Part Number	Description	Ordered	Installed

Recommendations: \_\_\_\_\_

Technician: [Signature]

Customer Name: [Signature]

Customer Signature: \_\_\_\_\_

Job Complete: \_\_\_\_\_

Yes ☒ No ☐

Labor: Reg \_\_\_\_\_

O.T. \_\_\_\_\_