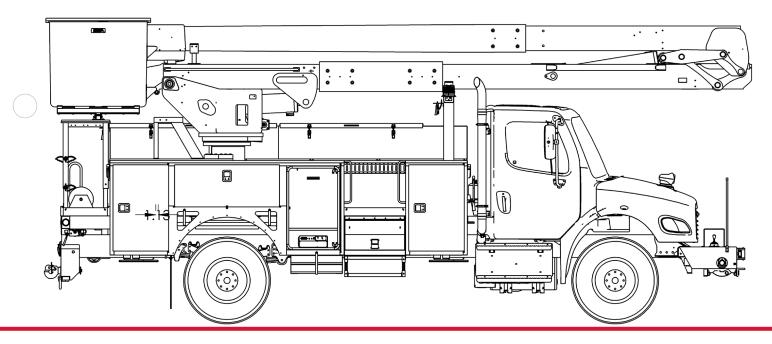
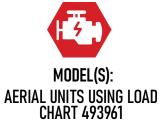


AERIAL LOAD CHARTS P/N 493961













DANGER

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury.

Many of the hazards identified in the Operator's Manual are also safety hazards when maintenance and repair procedures are performed.

DO NOT PERFORM MAINTENANCE UNLESS:

- √ You are trained and qualified to perform maintenance on this machine.
- √ You read, understand and obey:
 - manufacturer's instructions and safety rules
 - employer's safety rules and worksite regulations
 - · applicable governmental regulations
- √ You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this Tech Tip is a supplement to the Service Manual. Consult the appropriate Service Manual of your machine for safety rules and hazards.



TECH TIP 19 | RELEASED 09.03.2025 | VERSION 1.1 ©TEREX UTILITIES. ALL RIGHTS RESERVED

CONTENTS

TECH TIP#19





| Determine weight within platform

STEP 2



|Load radius

STEP 3



| Upper boom angle

STEP 4



| Unused platform capacity

STEP 5

INTRODUCTION

An operator will move a transformer from the ground and position it on a pole. Using the information in the following steps, determine if the lift plan can be achieved while remaining within the limits of the load chart.



This tech-tip demonstrates how to use a load chart. Always use the unit specific load chart to determine capacities and to plan the path of the load.

STEP 1

The transformer has a known weight of 320 lbs. Performing a dry run, the operator determined the boom angles required to move and place the transformer.

	TL41 JIB LIFTING CAPACITIES								
	WINCH CENTER TO LOAD LINE								
		0' TO 2'	2' TO 3'	3' TO 4'	4' TO 5'	OVER 5'			
	75°	1400							
	65°	1400	750						
	60°	1250	750	650					
ш	45°	1000							
G	30°	625	625	600	300	200			
ANGL	15°	400	375	350	300	200			
NB /	0°	300	300	300					
I⊃	-15°	400	375	450					
	-30°	625	625	650					
	-40°	900	750	050					
	MAX	1500	750	650	400	400			
	EQUIDDED AS EQUI OWS:								

- EQUIPPED AS FOLLOWS:
- SIDE MOUNT BOOM TIP WITH PLATFORM LIFT
- 400 LB. PLATFORM CAPACITY.
- CAPACITIES ARE IN LB.
- 90% OF THE UNUSED BASKET CAPACITY CAN BE ADDED TO THE JIB, UP TO A LOAD RADIUS OF 3', NOT TO EXCEED VALUES SHOWN IN THE "MAX" ROW 493961A

Load Radius	2 feet	Liner	50 lbs.
Operator	200 lbs.	Tools	50 lbs.
Transformer	320 lbs.	Upper Boom Angle	0° to 65°

Determine if the load in the platform is within capacity.

Using the load chart, the platform capacity is 400 lbs.

The weight of the Operator + Liner + Tools = 200 + 50 + 50 = 300 lbs.

The total weight is less than the platform capacity.

Load Radius	2 feet	Liner	50 lbs.
Operator	200 lbs.	Tools	50 lbs.
Transformer	320 lbs.	Upper Boom Angle	0° to 65°

	TL41 JIB LIFTING CAPACITIES								
	WINCH CENTER TO LOAD LINE								
		0' TO 2'	2' TO 3'	3' TO 4'	4' TO 5'	OVER 5'			
	75°	1400							
	65°	1400	750	650					
	60°	1250	730		300				
Ш	45°	1000							
	30°	625	625	600		200			
ANGL	15°	400	375	350		200			
JB /	0°	300	300	300					
\supset	-15°	400	375	450					
	-30°	625	625	650					
	-40°	900	750	050					
	MAX	1500	750	650	400	400			

EQUIPPED AS FOLLOWS:

- SIDE MOUNT BOOM TIP WITH PLATFORM LIFT
- 400 LB. PLATFORM CAPACITY.
- CAPACITIES ARE IN LB.
- 90% OF THE UNUSED BASKET CAPACITY CAN BE ADDED TO THE JIB, UP TO A LOAD RADIUS OF 3'. NOT TO EXCEED VALUES SHOWN IN THE "MAX" ROW 493961A

The load radius (winch center to load line) is 2 feet. Based on this load radius, column 2 will be used to determine capacities.

Load Radius	2 feet	Transformer	320 lbs.
Upper Boom Angle	0° to 65°		

	TL41 JIB LIFTING CAPACITIES							
	WINCH CENTER TO LOAD LINE							
		0' TO 2'	2' TO 3'	3' TO 4'	4' TO 5'	OVER 5'		
	75°	1400						
	65°	1400	750					
	60°	1250	750	650	300	200		
щ	45°	1000						
35	30°	625	625	600				
ANGL	15°	400	375	350				
UB /	0°	300	300	300				
	-15°	400	375	450				
	-30°	625	625	650				
	-40°	900	750	030				
	MAX	1500	750	650	400	400		

EQUIPPED AS FOLLOWS:

- SIDE MOUNT BOOM TIP WITH PLATFORM LIFT
- 400 LB. PLATFORM CAPACITY.
- CAPACITIES ARE IN LB.
- 90% OF THE UNUSED BASKET CAPACITY CAN BE ADDED TO THE JIB, UP TO A LOAD RADIUS OF 3'. NOT TO EXCEED VALUES SHOWN IN THE "MAX" ROW 493961A

The upper boom angle is listed in the table range from 0° to 65°. The max load that can be lifted in this range is 300 lbs. The 320 lb. transformer exceeds the lifting capacity listed on the load chart.

	Upper Boom Angle	0° to 65°	Transformer	320 lbs.
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	TL41 JIB LIFTING CAPACITIES							
	WINCH CENTER TO LOAD LINE							
		0' TO 2'	2' TO 3'	3' TO 4'	4' TO 5'	OVER 5'		
	75°	1400						
	65°	1400	750					
	60°	1250	750	650				
ш	45°	1000						
GL	30°	625	625	600	300	200		
Ž	15°	400	375	350				
UB ANGL	0°	300	300	300				
	-15°	400	375	450				
	-30°	625	625	650				
	-40°	900	750	030				
	MAX	1500	750	650	400	400		

EQUIPPED AS FOLLOWS:

- SIDE MOUNT BOOM TIP WITH PLATFORM LIFT
- 400 LB. PLATFORM CAPACITY.
- CAPACITIES ARE IN LB.
- 90% OF THE UNUSED BASKET CAPACITY CAN BE ADDED TO THE JIB, UP TO A LOAD RADIUS OF 3'. NOT TO EXCEED VALUES SHOWN IN THE "MAX" ROW 493961A

90% of the unused platform capacity can also be added to the jib up to a load radius of 3' provided the total is within the MAX capacity shown on the load chart.

(Platform capacity - total weight in the platform) x 90% (400 - 300) x 90% 100 x .9 = 90 lbs.

In the load chart below, the values have been adjusted to reflect the updated capacities with the additional 90 lbs. of unused platform capacity. Note at 45° and above the capacity doesn't change, it's already at the listed MAX on the load chart for the load radius. Using the unused platform capacity allows the transformer to be lifted.

	TL41 JIB LIFTING CAPACITIES							
	WINCH CENTER TO LOAD LINE							
		0' TO 2'	2' TO 3'	3' TO 4'	4' TO 5'	OVER 5'		
	75°	1400						
	65°	1400	750					
	60°	1250	730	650	300	200		
ш	45°	1000						
GL	30°	625	£25715	600				
ANGL	15°	400	275465	350				
UB /	0°	300	300390	300				
	-15°	400	375	450				
	-30°	625	625	650				
	-40°	900	750	030				
	MAX	1500	750	650	400	400		

- **EQUIPPED AS FOLLOWS:**
- SIDE MOUNT BOOM TIP WITH PLATFORM LIFT 400 LB. PLATFORM CAPACITY.
- CAPACITIES ARE IN LB.
- 90% OF THE UNUSED BASKET CAPACITY CAN BE ADDED TO THE JIB, UP TO A LOAD RADIUS OF 3'. NOT TO EXCEED VALUES SHOWN IN THE "MAX" ROW 493961A



FOR FURTHER ASSISTANCE,
CONTACT THE TEREX UTILITIES TECHNICAL SUPPORT TEAM

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