

CENTER OF GRAVITY AND AXLE LOAD ANALYSIS

ODEL: SC130 PETE 348 TANDEM
 FOR: RCS
 BY: ROBERTSON
 DATE: 1/29/2013

PROGRAM NAME: WTCGAXLE
 PROGRAM DATE: #####
 DEVELOPED BY: MANITEX I

CODE	DESCRIPTION	WEIGHT (LBS)	CG FROM CENTERLINE	MOMENT (IN-LBS)
1	BOOM INST 121 FT	7923.5	-149.520	-1184722
1	WIRE ROPE (260' X 3/8)	75	52	3900
1	TURRET INSTALLATION	1035	13	13455
1	BOOM HOIST CYLINDER	455	-27	-12285
1	CONTROL VALVES & PLUMBING	150	15	2250
	CONTROL CONSOLE & OPERATOR P	360	4	
2	24"X48"X23" STEEL TOOL BOX	120	-144	-34560
1	BOOM REST STD (6000218.017)	121	-234.25	-28344
	BOOM REST (SPECIAL)		-206.25	
	HANGER SHEAVE	50	-320	
1	BEARING & SWING INSTALLATION	427		
1	LOWER FRAME INSTALLATION	4750	-79.00	-375250
1	O/R INSTALLATION (REAR)	1415	47.5	67213
1	O/R INSTALLATION (FRONT)	1415	-224	-316960
1	LOWER PLATFORM (REAR)	397	19.3125	7667
1	LOWER PLATFORM (FRONT)	134	-218.75	-29313
1	FLATBED INST (15 FT STEEL)	1330	-112	-148960
	FLATBED INST (13 FT WOOD)	1200	-99.6875	
1	BASKET, ARM & SHELF	600	-368	-220800
1	24" STEEL BULKHEAD INSTALLAT	125	-161.5	-20188
2	LADDER INST	65	-39.625	-5151
1	O/R VALVES & PLUMBING	100	46.5	4650
1	HYDRAULIC TANK (STANDARD)	724	-183.25	-132673
	HYDRAULIC TANK (CHASIS MOUNT)	724	-155.125	
1	STEP BUMPER	200	57.5	11500
	PAYLOAD	10000	-115	
TOTAL =		21747	-110.297	-2398571

PETE 348 TAN

FRONT AXLE WEIGHT (LBS)	= 8870	ESTIMATED BARE TRUCK	REAR
REAR AXLE WEIGHT (LBS)	= 8240	WEIGHTS	SIDE
WHEELBASE (IN)	= 250	NOTE: IF WHEELBASE CHANGES	
CAB TO TANDEM (IN)	= 180.9	SO MUST THE CAB TO TANDEM.	FRONT
CENTERLINE ROT TO CAB (IN)	= 241.25		REAR

MISCELLANEOUS ADDITIONS:

	WEIGHT (LBS)	CG FROM FRONT AXLE	
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80 GALLONS OF FUEL AT 7.4 LBS/G	7.4	55	
2 DRIVER	250	55	
1 2 TON OVERHAUL BALL & ROPE	85	-46	F800 1
1 SHV LOAD BLOCK & ROPE SOCK	260	-42	
2 SHV LOAD BLOCK & ROPE SOCK	350	-42	
1 PUMP & PTO INSTALLATION (TR	125	70	
PAYLOAD ON FLATBED CENTER			
OPTION			

TOTAL WEIGHT OF TRUCK AND CRAN

	LBS	KG
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FRONT AXLE WEIGHT (LBS)	= 14257	6467
REAR AXLE WEIGHT (LBS)	= 25901	11749
GROSS VEHICLE WEIGHT (LBS)	= 40159	18216

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