

TECHNICAL SPECIFICATION

GRANITE 64BR



N4835

			WEIGHT (LB)	
CUSTOMER/VEHICLE INFO	DESCRIPTION		FRONT	REAR
S	CHASSIS (BASE MODEL)	GRANITE 64BR	4,857	1,848
	VEHICLE USE & BODY/TRAILER TYPE	DUMP TRUCK	0	0
	TRAILER TYPE	FIXED DRAWBAR TRAILER AND CENTERED AXLES	0	0

			WEIGHT (LB)	
ENGINE/TRANSMISSIONS	DESCRIPTION		FRONT	REAR
	ENGINE / MOTOR	MP8-505C MACK 505HP @ 1500-1700 RPM (PEAK) 2100 RPM (GOV) 1850 LB-FT, US'21	2,902	-264
S	TRANSMISSION	MACK TMD13AFO-HD mDRIVE HD 13 SP, CREEPER/ MULTI-SPEED REVERSE (OVERDRIVE)	578	192

			WEIGHT (LB)	
EXHAUST/EMISSIONS	DESCRIPTION		FRONT	REAR
S	DPF DIESEL PARTICULATE FILTER	CLEARTECH ONE BOX E.A.T.S. RH SIDE UNDER CAB US17 / US21	0	0
	DIESEL EXHAUST FLUID TANK	8.7 GALLON (33 L) 26" LEFT SIDE FUEL TANK MTD	84	45
S	EXHAUST	SINGLE VERTICAL RIGHT SIDE OUTBOARD MOUNTED STRAIGHT EXHAUST STACK TURNED OUT END	0	0

			WEIGHT (LB)	
ENGINE EQUIPMENT	DESCRIPTION		FRONT	REAR
	AIR INTAKE - INSIDE/OUTSIDE	INSIDE/OUTSIDE AIR INTAKE W/ IN-CAB CONTROL FOR SNOWPLOWS	20	0
	BUG SCREEN	BLACK ALUMINUM BUG SCREEN MOUNTED BEHIND GRILLE AND EXTREME COLD WINTER FRONT COVER (-60F to -40F)	3	0
	AIR COMPRESSOR/DRYER	BENDIX HEATED AD9 AIR DRYER W/ WABCO 636 (37.4 CFM) AIR COMPRESSOR	12	5
	ALTERNATOR	DELCO 12V 165A (36SI) BRUSHLESS	27	0
	BATTERIES	(3) MACK 12V 1000/3000 CCA THREADED STUD TYPE	16	7
CA	BATTERY BOX - MOUNTING (x)	RELOCATE SINGLE BATT BOX, RH RAIL, REARWARD OF F/A CL, 143" TO BOX FRONT	0	0
	EMERGENCY START CONNECTIONS	EMERGENCY START STUDS, BATTERY BOX MOUNTED	7	0
CA	BATTERY DISCONNECT SWITCH	MECHANICAL MAIN SWITCH, ONLY CAB CIRCUIT SHUTDOWN	5	0
	STARTER MOTOR	12 VOLT MELCO STARTER (MITSUBISHI ELECTRIC)	31	0
	ENGINE BRAKE	MACK MP8 POWERLEASH	0	0
	ENGINE HEATERS	GRID HEATER + 120v 1500w BLOCK HEATER	0	0
	ENGINE BLOCK HEATER	120V 1500W ENGINE BLOCK HEATER	5	0
	ENGINE STARTING AID	ELECTRIC PREHEATER	7	0

			WEIGHT (LB)	
CLUTCH/TRANS EQUIPMENT	DESCRIPTION		FRONT	REAR
S	CLUTCH	ZF/SACHS SINGLE PLATE 17" (430MM) ORGANIC MATERIAL	0	0
	DRIVELINE - MAIN	MERITOR RPL35-SD, WITH CROSS SERRATED YOKE (PROPS2XL)	23	49
S	DRIVELINE - INTERAXLE	MERITOR RPL25	0	36

TECHNICAL SPECIFICATION *(cont.)*



			WEIGHT (LB)	
FRONT AXLE EQUIPMENT	DESCRIPTION		FRONT	REAR
CA FRONT AXLE	FXL18 STD LOC W/2ND FXL18 (same beams) TEMP MTD TO FRAME FOR LOCAL CONVERSION TO 8X4		1,312	0
S FRONT AXLE QUANTITY (required for CERT)	SINGLE FRONT AXLE		0	0
SALES MODEL QUANTITY OF FRONT AXLES	SALES MODEL HAS ONE (1) FRONT AXLE INSTALLED		0	0
S SPRINGS - FRONT	MACK TAPERLEAF 18000# (8200 KG) GROUND LOAD RATING, EQUAL BIAS		27	0
	BRAKES - FRONT	MERITOR "S" CAM TYPE 16.5" x 6" Q+	29	0
S DUST SHIELDS - FRONT	DUST SHIELDS FOR FRONT AXLE		5	0
	HUBS - FRONT	FERROUS	157	0
S FRONT AXLE LUBRICANT	FRONT AXLE LUBE, FAG NLGI2 GREASE		0	0
S STEERING	TRW TAS66+RCH60 POWER		175	0

			WEIGHT (LB)	
REAR AXLE EQUIPMENT	DESCRIPTION		FRONT	REAR
REAR AXLE	46000# (20900kg) MERITOR RT46-164EH		0	1,786
SALES MODEL QUANTITY OF REAR AXLES	SALES MODEL HAS TWO (2) REAR AXLES INSTALLED		0	0
S DRIVE AXLE LUBRICANT	DRIVE AXLE LUBE, SHELL 75W90 SYNTHETIC OIL		0	0
	CARRIER - REAR AXLE	VENDOR AXLES	0	0
S POWER DIVIDER LOCKOUT	INTERAXLE POWER DIVIDER LOCKOUT, W/BUZZER & LIGHT		0	40
	REAR AXLE RATIO	3.58 RATIO	0	0
	REAR SUSPENSION	PAX 46 HIGH STABILITY HENDRICKSON PRIMAXX AIR (VENDOR AXLES ONLY)	0	1,504
	BOGIE SPREAD, REAR	54" AXLE SPACING (BOGIE WHEELBASE)	0	89
	SUSPENSION LEVELING DEVICE	ELECTRICAL REGULATION LEVELING DEVICE	0	3
	SHOCK ABSORBERS - REAR	REAR SHOCK ABSORBER	0	27
S AUX.SPRING BRAKE QTY	AUX SPRING BRAKE QTY, 4 CHAMBERS		0	20
S BRAKES - REAR	MERITOR "S" CAM 16.5"x7" Q+ (Total for QTY = 2)		0	-35
	DUST SHIELDS - REAR BRAKE	DUST SHIELDS FOR REAR AXLE	0	12
S HUBS - REAR	IRON PRESET REAR HUB W/INTEGRATED SPINDLE NUT		0	318
	ANTILOCK BRAKE SYSTEM	BENDIX WITH TRACTION CONTROL 4S4M	0	0
S SPRING BRAKE INVERSION VALVE	TRACTOR SPRING BRAKE INVERSION VALVE		5	0

			WEIGHT (LB)	
PUSHER/TAG AXLE EQUIPMENT	DESCRIPTION		FRONT	REAR
PUSHER AXLE CAPACITY, SECOND	WITHOUT 2ND PUSHER AXLE		0	0
SALES MODEL QUANTITY OF PUSHER AXLES	SALES MODEL HAS ZERO (0) PUSHER AXLES INSTALLED		0	0
SALES MODEL QUANTITY OF TAG AXLES	SALES MODEL HAS ZERO (0) TAG AXLES INSTALLED		0	0

			WEIGHT (LB)	
FRAME EQUIPMENT/FUEL TANKS	DESCRIPTION		FRONT	REAR
	WHEELBASE	242"	183	183
	AF (OVERHANG)	71"	-24	283
	FRAME RAILS & LINERS	11.1 x 90 x 300mm - (0.437" x 3.54" x 11.81"); RBM 2,820,000 LB-IN	0	0
S	BOLT ON FRONT FRAME EXTENSION	6" BOLT ON FRAME EXTENSION	155	-2

TECHNICAL SPECIFICATION *(cont.)*



			WEIGHT (LB)	
FRAME EQUIPMENT/FUEL TANKS	DESCRIPTION		FRONT	REAR
S	FRONT FRAME LENGTH	STANDARD BUMPER POSITION	64	-6
	CROSSMEMBERS BEHIND REAR AXLE	STEEL SINGLE CHANNEL (1)	-13	51
S	REAR CROSSMEMBER OPTIONS	STEEL CLOSING REAR CROSSMEMBER	-8	49
	FRONT BUMPER	EXTENDED-STYLIZED-BRIGHT FINISH STEEL W/ STONE GUARD	0	0
	RADIATOR GUARD	PLATE TYPE BRIGHT FINISH	45	-11
	FUEL TANK - LH	93 GALLON (350 L) 26" ALUMINUM, SLEEVED D-SHAPED	183	86
S	FUEL TANK - RH	W/O RH FUEL TANK	0	0
S	FUEL LINE MATERIAL	BRAIDED HOSE	5	3

			WEIGHT (LB)	
AIR/BRAKE	DESCRIPTION		FRONT	REAR
	RELOCATE AIR RESERVOIRS	RELOCATE ALL AIR RESERVOIRS INFRAME	0	0
	AIR TANK MATERIAL & FINISH	ALUMINUM AIR TANK PAINTED CHASSIS COLOR	-24	0
	INCREASE AIR CAPACITY	AUXILIARY AIR TANK CAPACITY FOR (1) EXTRA LIFT AXLE	20	16

			WEIGHT (LB)	
ELECTRICAL	DESCRIPTION		FRONT	REAR
	BACK-UP ALARM	POLLAK 41-722 CONSTANT AUDIBLE (MOUNTED ON REAR CROSS MEMBER) 107 dB	0	3
	FOG LAMPS	DASH CONTROL & WIRING, W/HOLESIZE TO ACCOMMODATE LOCAL INSTALL OF RND/RECT AUX FOG OR DRIVING	3	0
	WARNING LAMP (CA family in PC29 only)	SWITCH IN DASH W/WIRING ROUTED TO CAB ROOF, ABOVE LH+RH DOORS FOR LOCAL INSTL OF STROBE LTS	3	0
S	TAIL LAMPS	INCANDESCENT TAIL LAMPS	0	7
	WORK LIGHTS - CHASSIS MOUNTED	RH/LH LED WORK LIGHT (STEPS & GROUND) ON BOTH SIDES TRUCK	3	0

			WEIGHT (LB)	
TRAILER CONNECTIONS	DESCRIPTION		FRONT	REAR
S	HAND CONTROL VALVE	W/O HAND CONTROL VALVE	-6	0
	TRAILER CONNECTIONS	TRAILER AIR BRAKE CONNECTIONS, END OF FRAME	23	23
S	TRAILER CONNECTORS HOLDER	OMIT TRAILER CONNECTORS HOLDER	3	0

			WEIGHT (LB)	
PTO	DESCRIPTION		FRONT	REAR
	TRANSMISSION MOUNTED PTO	PTR-DM, Single RH: DIN 5462 (INNER)	47	12
	HYDRAULIC PUMP	F1-101R PARKER PUMP/REAR OF mDRIVE TRANSMISSION	23	7
S	BODY BUILDER INTERFACE	BODY LINK III W/CAB PASS-THRU	5	5

			WEIGHT (LB)	
CAB INTERIOR (A THRU G)	DESCRIPTION		FRONT	REAR
	FIRE EXTINGUISHER	5LB (ABC RATED) MOUNTED BETWEEN DRIVER SEAT BASE AND DOOR VALVE AIMED REARWARD	9	0
	FLOOR COVERING	POLYURETHANE FLOOR MAT W/ REMOVABLE INSERTS	16	0

TECHNICAL SPECIFICATION *(cont.)*



			WEIGHT (LB)	
CAB INTERIOR (H THRU R)	DESCRIPTION		FRONT	REAR
S	REAR WALL STORAGE COMPARTMENT	STORAGE POUCH REAR	5	0

			WEIGHT (LB)	
CAB INTERIOR (S THRU Z)	DESCRIPTION		FRONT	REAR
	SEAT - DRIVER'S	SEARS-AIR, ATLAS 80, HIGH BACK, 4 CHAMBER AIR LUMBAR, W/ HEAT	82	23
	SEAT - PASSENGER'S	MACK-FIXED, HIGH BACK, W/ STORAGE BOX	40	9
	SEAT - DUST COVER(S)	SEAT, DUST COVER FOR DRIVER'S SEAT	3	0
	SEAT ARM REST(S)	INBOARD MOUNTED ARM REST, DRIVER'S & RIDER'S SEAT	5	3

			WEIGHT (LB)	
CAB EXTERIOR	DESCRIPTION		FRONT	REAR
	PASSENGER SIDE VISIBILITY OPTIONS	AUXILIARY WINDOW IN RH DOOR WITH SIDE CLOSE VIEW MIRROR	5	0
	MIRRORS - PROXIMITY	RECTANGULAR CONVEX ABOVE RH DOOR WINDOW	3	0
S	FENDER EXTENSIONS	FENDER EXTENSIONS	5	0
	HORN - AIR	(2) MACK RECTANGULAR SINGLE TRUMPET (ONE EACH SIDE OF CAB ROOF)	7	0
S	HORN - ELECTRICAL	DUAL TONE	5	0
	MIRRORS - EXTERIOR	BULLDOG STYLIZED MIRRORS - LH & RH HEATED & MOTORIZED AND ILLUMINATED W/INTEGRAL CONVEX MIRROR	7	0
	SUN VISOR - EXTERIOR	SUN VISOR, EXTERIOR, STAINLESS STEEL (UNPAINTED)	9	0

			WEIGHT (LB)	
AERODYNAMIC DEVICES	DESCRIPTION		FRONT	REAR
S	CAB AERODYNAMIC PACKAGES	WITHOUT CAB AERODYNAMIC DEVICES	0	0
S	FRONT CHASSIS AERODYNAMIC PACKAGE	WITHOUT FRONT AERODYNAMIC FAIRINGS	0	0
S	REAR CHASSIS AERODYNAMIC PACKAGE	WITHOUT REAR AERODYNAMIC FAIRING	0	0

			WEIGHT (LB)	
WHEELS & TIRES	DESCRIPTION		FRONT	REAR
	TIRES BRAND/TYPE - FRONT	315/80R22.5 L MICHELIN X WORKS Z (18180 lbs) (Total for QTY = 4)	653	0
	WHEELS - FRONT	22.5x9.00 ALCOA 89U63x HIGH POLISHED, ALUMINUM, 4.06" OFFSET, 10 HAND HOLE (Total for QTY = 4)	195	0
	TIRES BRAND/TYPE - REAR	11R22.5 H MICHELIN XDS2 (24020 lbs) (DRIVE ONLY) (Total for QTY = 8)	0	1,094
	WHEELS - REAR	22.5x8.25 ALCOA 88565x SEVERE SERVICE, HIGH POLISHED ALUMINUM, 6.60" OFFSET, 10 HAND HOLE (Total for QTY = 8)	0	406
	WHEEL GUARDS - FRONT	PROTECTIVE NYLON SPACER BETWEEN DISCS WHEEL TO DRUM	3	0
	WHEEL GUARDS - REAR	PROTECTIVE NYLON SPACER BETWEEN DISCS WHEEL TO DRUM	0	3

			WEIGHT (LB)	
PAINT	DESCRIPTION		FRONT	REAR
S	PAINT DESIGN	SINGLE COLOR	0	0
	PAINT COLOR - FIRST COLOR	CUMULUS GRAY METALLIC; P9086	0	0

TECHNICAL SPECIFICATION (cont.)



ADDITIONAL ENGINEERING (Included)	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
CA		0	0
FRONT / REAR AXLE WEIGHTS (LB)		11998	7908
TOTAL WEIGHT (LB)			19906





VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY			
Description	Dwg Ref	Length	UOM
Front Frame Extension	FE	6.1	INCHES
Bumper to Front Axle	BA	51.1	INCHES
Eff. Bumper to Front Axle	N/A	57.2	INCHES
Wheelbase	WB	241.5	INCHES
Rear Overhang	OH	71.3	INCHES
Overall Length	OL	370.0	INCHES
Bumper to Back of Cab	BBC	116.5	INCHES
Eff. Bumper to Back of Cab	EBBC	134.1	INCHES
Eff. Cab to Rear Axle	ECA	164.6	INCHES
Eff. Front Axle to Back of Cab	EAC	77.0	INCHES
Eff. Cab to End of Frame	ECEF	235.8	INCHES
Unladen Frame Height	FH	41.2	INCHES
Cab Height	CH	70.9	INCHES
Overall Height	OVH	123.2	INCHES
Driver CG	DCG	47.2	INCHES
54" AXLE SPACING (BOGIE WHEELBASE)	BS	53.9	INCHES
Second Front Axle Spacing	SFAS	153.5	INCHES

