

TECHNICAL SPECIFICATION

MD7 42R



N4807

			WEIGHT (LB)	
MODEL DEFINING	DESCRIPTION		FRONT	REAR
S	PRODUCT GENERATION	MEDIUM DUTY TRUCKS	0	0
S	BRAND	BRAND MACK	0	0
S	VEHICLE PROFILE	CONVENTIONAL (N-SERIES)	0	0
S	STEERING WHEEL POS.	STEERING WHEEL POSITION, LEFT HAND SIDE	0	0
S	AXLE ARRANGEMENT	4 WHEELS THEREOF 2 DRIVING	0	0

			WEIGHT (LB)	
CUSTOMER/VEHICLE INFO	DESCRIPTION		FRONT	REAR
	CHASSIS (BASE MODEL)	MD742 - 42R MEDIUM DUTY, CLASS 7 w/ 6.7L, (MAX 33,000lbs GVWR) 103" BBC	2,095	552
S	ASSEMBLY PLANT	FACTORY USA (RV, MACK)	0	0
S	DOT VEHICLE CERTIFICATION	DOT INCOMPLETE VEHICLE CERTIFICATION	0	0
	IDLE EMISSION CERTIFICATION	IDLE EMISSION CERTIFICATION, EPA 24	0	0
	PRICE BOOK LEVEL	2025B Pricebook	0	0
S	GROSS COMBINATION WEIGHT (CA in PC29 only)	TRUCK ONLY - NO TRAILER TOWING PROVISIONS PROVIDED	0	0
S	BRAKE REGULATION	BRAKE REGULATION, STOPPING DISTANCE 94M (310 FT)	0	0

			WEIGHT (LB)	
ENGINE & TRANSMISSION	DESCRIPTION		FRONT	REAR
	ENGINE / MOTOR	ISB6.7-280 DIESEL CUMMINS 280HP @ 2600RPM (GOV) 660 LB-FT, US21	1,579	-22
	TRANSMISSION	2500 RDS 6 SP-ALLISON RUGGED DUTY SERIES GEN 6 (WITH PTO PROVISIONS)	349	51
	FUELSense CALIBRATION	ALLISON FUELSense PREMIUM, DYNACTIVE, NEUTRAL AT STOP, ARM	0	0

			WEIGHT (LB)	
ENGINE & TRANSMISSION EQUIPMENT	DESCRIPTION		FRONT	REAR
	ENGINE BRAKE TYPE	VGT TURBO EXHAUST BRAKE (DIESEL ONLY)	0	0
	CRUISE CONTROL	CRUISE CONTROL	0	0
S	ALTERNATOR	DELCO 12V 160A (28SI) BRUSH-TYPE	0	0
	BATTERY DISCONNECT SWITCH	BATTERY DISCONNECT SWITCH	5	0
S	STARTER MOTOR	12 VOLT MELCO STARTER (MITSUBISHI ELECTRIC)	0	0
S	ENGINE BLOCK HEATER	120 VOLT / 0.75 KW, ENGINE BLOCK HEATER	3	0

			WEIGHT (LB)	
AXLE & SUSPENSION	DESCRIPTION		FRONT	REAR
S	FRONT AXLE	12,000LB MERITOR MFS+ 5400 KG	1,142	0
S	SPRINGS - FRONT	MACK TAPERLEAF 12300# (5500 KG) GROUND LOAD RATING	0	0
S	FRONT AXLE BRAKES	MERITOR "S" CAM TYPE 16.5" x 5" Q+	0	0
S	STEERING GEAR RATIO	STEERING GEAR, RATIO 18.2, FIXED	0	0
	REAR SHOCK ABSORBER	REAR SHOCK ABSORBER	0	0
	REAR AXLE - SINGLE	21000# (9525 kg) MERITOR MS-21-14X, (W/ DIFF LOCK) CASING 11.0mm	0	1,189

TECHNICAL SPECIFICATION *(cont.)*



			WEIGHT (LB)	
AXLE & SUSPENSION	DESCRIPTION		FRONT	REAR
	REAR SUSPENSION - SINGLE	AL210 AIR-MACK 21000LB 9525KG	0	424
S	BRAKES - REAR	MERITOR "S" CAM 16.5"x7" Q+	0	0

			WEIGHT (LB)	
CHASSIS EQUIPMENT	DESCRIPTION		FRONT	REAR
	DPF DIESEL PARTICULATE FILTER	CUMMINS SINGLE MODULE E.A.T.S. RH SIDE UNDER CAB US17 (7L over 271HP only!!)	106	53
S	EXHAUST	UNDERFRAME RIGHT SIDE INBOARD MOUNTED (Diesel engines only)	0	0

			WEIGHT (LB)	
FRAME EQUIPMENT & FUEL TANKS	DESCRIPTION		FRONT	REAR
	WHEELBASE	270" Wheelbase (207" CA) 100" After-frame	693	721
	AF (OVERHANG)	100"	0	0
S	FRAME RAILS	STEEL - 260MM X 70MM X 8MM -- (10.24" X 2.75" X 0.31"); RBM 1,580,000 LB-IN	0	0
S	PRIMARY FUEL FILTER	FUEL FILTER & WATER SEPARATOR (Diesel engines only)	12	0
	FUEL TANK - LH	90 GALLON (340 L) 22" ALUMINUM ROUND	164	49

			WEIGHT (LB)	
CAB INTERIOR	DESCRIPTION		FRONT	REAR
	LANE SUPPORT SYSTEM	WITHOUT LANE SUPPORT SYSTEM	0	0
	FIRE EXTINGUISHER	HAND FIRE EXTINGUISHER 2.2 KG (5LB) ENGLISH DECAL, ABC	0	0
S	SEAT BELT REMINDER	WITHOUT SEAT BELT REMINDER	0	0
S	AUDIO SYSTEM	RADIO, AM/FM, MP3, WEATHER BAND, W/ MUTE IN REVERSE	0	0
S	AUDIO INTEGRAT. PHONE HANDSFRE	AUDIO INTEGRATED HANDSFREE PHONE, BLUETOOTH	0	0
S	AUDIO COMMUNICATION CONNECTOR	AUDIO COMMUNICATION CONNECTOR, USB AUDIO	0	0
	DRIVER SEAT	MACK DRIVERS SEAT, AIR SUSPENDED	0	0
	SEAT ARMREST	SEAT ARMREST SINGLE, DRIV(DRIVER SEAT ONLY)	0	0
S	STEERING WHEEL ADJUSTMENT	TILT / TELESCOPIC STEERING COLUMN	0	0

			WEIGHT (LB)	
CAB EXTERIOR	DESCRIPTION		FRONT	REAR
S	WINDSHIELD TYPE	ONE PIECE WINDSHIELD	0	0
S	DOOR WINDOW FRONT	PEEP WINDOW ON PASSENGER SIDE DOOR	0	0
	MIRRORS - EXTERIOR	HEATED AND MOTORIZED MIRRORS BOTH SIDES, CHROME (Bulldog mirror)	31	0

			WEIGHT (LB)	
WHEELS & TIRES	DESCRIPTION		FRONT	REAR
	TIRES BRAND/TYPE - FRONT	11R22.5 G BRIDGESTONE R268 ECOPIA (12350 lbs) (Total for QTY = 2)	243	0
	WHEELS - FRONT	22.5x8.25 ACCURIDE, 43644x POLISHED ALUMINUM DISC (Total for QTY = 2)	80	0
S	FRONT WHEEL STUDS	FRONT WHEEL STUDS, LONG	0	0
	TIRES BRAND/TYPE - REAR	11R22.5 G BRIDGESTONE M760 ECOPIA (23360 lbs) (DRIVE ONLY) (Total for QTY = 4)	0	538

TECHNICAL SPECIFICATION *(cont.)*



			WEIGHT (LB)	
WHEELS & TIRES		DESCRIPTION	FRONT	REAR
	WHEELS - REAR	22.5x8.25 ACCURIDE, 43644x POLISHED ALUMINUM DISC (Total for QTY = 4)	0	159
S	DRIVE WHEEL STUDS	DRIVE WHEEL STUDS, LONG	0	0
			WEIGHT (LB)	
PAINT		DESCRIPTION	FRONT	REAR
S	PAINT DESIGN	SINGLE COLOR	0	0
	PAINT COLOR - FIRST COLOR	MACK BLACK; P3036	0	0
FRONT / REAR AXLE WEIGHTS (LB)			6495	3711
TOTAL WEIGHT (LB)				10206

VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY			
Description	Dwg Ref	Length	UOM
Front Frame Extension	FE	0.0	INCHES
Bumper to Front Axle	BA	40.0	INCHES
Eff. Bumper to Front Axle	N/A	40.0	INCHES
Wheelbase	WB	270.1	INCHES
Rear Overhang	OH	100.0	INCHES
Overall Length	OL	410.1	INCHES
Bumper to Back of Cab	BBC	103.0	INCHES
Eff. Bumper to Back of Cab	EBBC	103.0	INCHES
Eff. Cab to Rear Axle	ECA	207.1	INCHES
Eff. Front Axle to Back of Cab	EAC	63.0	INCHES
Eff. Cab to End of Frame	ECEF	307.1	INCHES
Unladen Frame Height	FH	40.6	INCHES
Cab Height	CH	69.1	INCHES
Overall Height	OVH	109.7	INCHES
Driver CG	DCG	59.1	INCHES

