

# FREIGHTLINER SPECIFICATION PROPOSAL

## Vehicle Configuration

M2 106 CONVENTIONAL CHASSIS  
2011 MODEL YEAR SPECIFIED  
SET BACK AXLE - TRUCK

## General Service

FIRE SERVICE  
EMERGENCY VEHICLES BUSINESS SEGMENT  
MEDIUM TRUCK 2 YEAR WARRANTY  
EXPECTED FRONT AXLE LOAD: 14600 lbs  
EXPECTED REAR DRIVE AXLE LOAD: 40000 lbs  
EXPECTED GROSS VEHICLE WEIGHT CAPACITY  
54600 lbs

## Engine

CUM ISC-350 350 HP @ 2000 RPM, 2200 GOV, 1000  
LB/FT @ 1400 RPM

## Engine Equipment

2010 EPA/CARB EMISSION CERTIFICATION  
NFPA COMPLIANT EMBER SCREEN AND FIRE  
RETARDANT DONALDSON AIR CLEANER  
DR 12V 275 AMP 40-SI QUADRAMOUNT PAD  
ALTERNATOR WITH REMOTE BATTERY VOLTAGE  
SENSE  
(2) ALLIANCE MODEL 1231, GROUP 31, 12 VOLT  
MAINTENANCE FREE 2200 CCA THREADED STUD  
BATTERIES WITH POSITIVE JUMPSTART POST  
BATTERY BOX FRAME MOUNTED  
WIRE GROUND RETURN FOR BATTERY CABLES WITH  
ADDITIONAL FRAME GROUND RETURN  
POSITIVE LOAD DISCONNECT WITH CAB MOUNTED  
CONTROL SWITCH MOUNTED OUTBOARD DRIVER  
SEAT  
CUMMINS 18.7 CFM AIR COMPRESSOR WITH  
INTERNAL SAFETY VALVE  
CUMMINS EXHAUST BRAKE INTEGRAL WITH  
VARIABLE GEOMETRY TURBO  
RH MTD HORIZONTAL AFTERTREATMENT SYSTEM  
HORTON DRIVEMASTER ON/OFF FAN DRIVE  
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH,  
NON ENGINE MOUNTED  
CUMMINS SPIN ON FUEL FILTER  
COMBINATION FULL FLOW/BYPASS OIL FILTER



1100 SQUARE INCH ALUMINUM RADIATOR WITH  
SENDURE HEAT EXCHANGER  
ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-  
CHARGED SCA HEAVY DUTY COOLANT  
GATES BLUE STRIPE COOLANT HOSES OR  
EQUIVALENT  
CONSTANT TENSION HOSE CLAMPS FOR COOLANT  
HOSES  
ELECTRIC GRID AIR INTAKE WARMER  
DELCO 12V 38MT HD STARTER WITH INTEGRATED  
MAGNETIC SWITCH

### Transmission

ALLISON 3000 EVS 5 SPD AUTOMATIC  
TRANSMISSION WITH PTO PROVISION

### Transmission Equipment

TRANSMISSION PROGNOSTICS - ENABLED  
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION  
DRAIN, AXLE(S) FILL AND DRAIN  
PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH  
MOUNTED  
WATER TO OIL TRANSMISSION COOLER  
TRANSMISSION OIL CHECK AND FILL WITH  
ELECTRONIC OIL LEVEL CHECK  
SYNTHETIC TRANSMISSION FLUID (TES-295  
COMPLIANT)

### Front Axle and Equipment

AF-14.7-3 14,700# FF1 71.5 KPI/3.74 DROP SINGLE  
FRONT AXLE  
MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT  
BRAKES, DOUBLE ANCHOR, FABRICATED SHOES  
FIRE AND EMERGENCY SEVERE SERVICE, NON-  
ASBESTOS FRONT LINING  
MERITOR AUTOMATIC FRONT SLACK ADJUSTERS  
TRW TAS-85 POWER STEERING

### Front Suspension

14,600# TAPERLEAF FRONT SUSPENSION  
MAINTENANCE FREE RUBBER BUSHINGS - FRONT  
SUSPENSION  
FRONT SHOCK ABSORBERS

### Rear Axle and Equipment

RT-40-145 40,000# R-SERIES TANDEM REAR AXLE  
IRON REAR AXLE CARRIER WITH OPTIONAL HEAVY  
DUTY AXLE HOUSING

17T MERITOR EXTENDED LUBE MAIN DRIVELINE  
WITH HALF ROUND YOKES  
17T MERITOR EXTENDED LUBE INTERAXLE  
DRIVELINE WITH HALF ROUND YOKES  
(1) INTERAXLE LOCK VALVE FOR TANDEM AXLES  
BLINKING LAMP WITH EACH MODE SWITCH,  
INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF  
MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR  
BRAKES, DOUBLE ANCHOR, FABRICATED SHOES  
FIRE AND EMERGENCY SEVERE SERVICE NON-  
ASBESTOS REAR BRAKE LINING  
GUNITE AUTOMATIC REAR SLACK ADJUSTERS

### Rear Suspension

TUFTRAC 40,000# REAR SPRING SUSPENSION  
52 INCH AXLE SPACING  
FORE/AFT AND TRANSVERSE CONTROL RODS  
REAR SHOCK ABSORBERS - ONE AXLE

### Brake System

AIR BRAKE PACKAGE  
WABCO 4S/4M ABS WITH TRACTION CONTROL  
NFPA COMPLIANT ENHANCED STABILITY CONTROL  
BW AD-9 BRAKE LINE AIR DRYER WITH HEATER  
CUSTOM STEEL AIR BRAKE RESERVOIRS  
STANDARD AIR SYSTEM PRESSURE PROTECTION  
BW DV-2 AUTO DRAIN VALVE WITHOUT HEATER -  
WET TANK

### Electrical Connections

UPGRADED CHASSIS MULTIPLEXING UNIT  
UPGRADED BULKHEAD MULTIPLEXING UNIT

### Wheelbase & Frame

(226 INCH) WHEELBASE / (160 INCH) CA  
11/32X3-1/2X10-15/16 INCH STEEL FRAME 120KSI  
1/4" C-CHANNEL INNER FRAME REINFORCEMENT  
(105 INCH) REAR FRAME OVERHANG

### Chassis Equipment

THREE-PIECE 14 INCH CHROME STEEL BUMPER  
WITH COLLAPSIBLE ENDS AND LH WING CUTOUT  
FOR SPEAKER  
FRONT TOW HOOKS - FRAME MOUNTED  
GRADE 8 THREADED HEX HEADED FRAME  
FASTENERS

## Fuel Tanks

50 GALLON POLISHED ALUMINUM FUEL TANK  
ALLIANCE FUEL FILTER/WATER SEPARATOR  
6 GALLON DIESEL EXHAUST FLUID TANK

## Tires

CONTINENTAL HSR 12R22.5 16 PLY RADIAL FRONT TIRES  
CONTINENTAL HDR1 11R22.5 14 PLY RADIAL REAR TIRES

## Hubs

CONMET PRE-SET BEARING IRON FRONT HUBS  
CONMET PRE-SET BEARING IRON REAR HUBS

## Wheels

22.5X8.25 10-HUB PILOT POLISHED ALUMINUM DISC FRONT WHEELS  
22.5X8.25 10-HUB PILOT POLISHED ALUMINUM DISC REAR OUTER WHEELS

## Cab Exterior

106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
AIR CAB MOUNTS  
NFPA COMPLIANT EXTERIOR GRAB HANDLES  
HOOD MOUNTED CHROMED PLASTIC GRILLE  
CHROMED HOOD MOUNTED AIR INTAKE GRILLE  
DUAL 25 INCH ROUND STUTTER TONE HOOD MOUNTED AIR HORNS  
DUAL ELECTRIC HORNS  
INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL  
LED AERODYNAMIC MARKER LIGHTS  
DAYTIME RUNNING LIGHTS  
DUAL 102" WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE  
LH AND RH 8" BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS  
63X14 INCH TINTED REAR WINDOW  
TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS  
TINTED WINDSHIELD  
2 GALLON WINDSHIELD WASHER RESERVOIR WITH FLUID LEVEL INDICATOR, FRAME MOUNTED

## Cab Interior

OPAL GRAY VINYL INTERIOR

MOLDED PLASTIC DOOR PANELS WITH ALUMINUM  
KICKPLATE LOWER DOORS  
BLACK MATS WITH SINGLE INSULATION  
FORWARD ROOF MOUNTED CONSOLE WITH UPPER  
STORAGE COMPARTMENTS WITHOUT NETTING  
IN DASH STORAGE BIN  
(2) CUP HOLDERS LH AND RH DASH  
HEATER, DEFROSTER AND AIR CONDITIONER  
MAIN HVAC CONTROLS WITH RECIRCULATION  
SWITCH  
CAB INSULATION  
SOLID-STATE CIRCUIT PROTECTION AND FUSES  
12V NEGATIVE GROUND ELECTRICAL SYSTEM  
DOME LIGHT WITH 3-WAY SWITCH ACTIVATED BY LH  
AND RH DOORS  
(1) 12 VOLT POWER SUPPLY IN DASH  
HIGH BACK AIR SUSPENSION DRIVER SEAT NFPA  
COMPLIANT  
HIGH BACK NON SUSPENSION PASSENGER SEAT  
WITH UNDERSEAT STORAGE NFPA COMPLIANT  
LH AND RH INTEGRAL DOOR PANEL ARMRESTS  
GRAY VINYL DRIVER SEAT COVER WITH GRAY  
CORDURA CLOTH BOLSTER AND HEADREST  
GRAY VINYL FRONT PASSENGER SEAT COVER WITH  
GRAY CORDURA CLOTH BOLSTER AND HEADREST  
NFPA COMPLIANT HIGH VISIBILITY SEAT BELTS  
ADJUSTABLE TILT AND TELESCOPING STEERING  
COLUMN  
4-SPOKE 18 INCH STEERING WHEEL  
DRIVER AND PASSENGER INTERIOR SUN VISORS

## Instruments & Controls

BLACK GAUGE BEZELS  
LOW AIR PRESSURE LIGHT AND BUZZER  
2 INCH PRIMARY AND SECONDARY AIR PRESSURE  
GAUGES  
ENGINE COMPARTMENT MOUNTED AIR  
RESTRICTION INDICATOR WITH GRADUATIONS, WITH  
WARNING LIGHT IN DASH  
97 DB BACKUP ALARM  
IGNITION SWITCH WITH NON REMOVABLE KEY  
ODOMETER/TRIP/HOUR/DIAGNOSTIC/VOLTAGE  
DISPLAY: 1X7 CHARACTER, 26 WARNING LAMPS,  
DATA LINKED, ICU3  
FIRE AND EMERGENCY SERVICE VEHICLES ENGINE  
WARNING

2 INCH ELECTRIC FUEL GAUGE  
 ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE  
 2 INCH TRANSMISSION OIL TEMPERATURE GAUGE  
 ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY  
 ELECTRIC ENGINE OIL PRESSURE GAUGE  
 AM/FM/WB RADIO WITH FRONT AUXILIARY INPUT  
 ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE  
 ELECTRONIC 3000 RPM TACHOMETER  
 DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY  
 SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY  
 MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH  
 ONE VALVE PARK BRAKE SYSTEM WITH DASH VALVE  
 SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE  
 INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS

**Design**

PAINT: ONE SOLID COLOR

**Color**

CAB COLOR A: RED ELITE  
 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT

**T O T A L V E H I C L E S U M M A R Y**

**Weight Summary**

	<b>Weight Front</b>	<b>Weight Rear</b>	<b>Total Weight</b>
Factory Weight <sup>+</sup>	7011 LBS	6962 LBS	13973 LBS

(+) Weights shown are estimates only.

