



FL-3 Fuel-Lube Truck

Today's fast track mining methods require the timely supply of diesel fuel, oils and lubricants. Productivity of diesel-hydraulic and electrical-hydraulic equipment is only achievable if energy sources are made readily available. The Mine-Mate™ FL-3 Fuel-Lube Truck is an integral member of the bulk materials transfer system.

Features

- Up to 1,500 US gallons (6,000 Litres) carrying capacity of diesel fuel, oils, grease and lubricants
- Heavy duty tanks with baffles and clean out covers
- Manual and/or "Wiggins" fill ports
- Manual (OPW) or "Wiggins" discharge nozzles
- Spring or hydraulic retract reels
- Dependable hydraulic driven pumps
- Clean high powered, electronically controlled engines
- Reliable, proven power train components
- Four wheel drive, articulated steer carrier
- Canopy and enclosed cab option

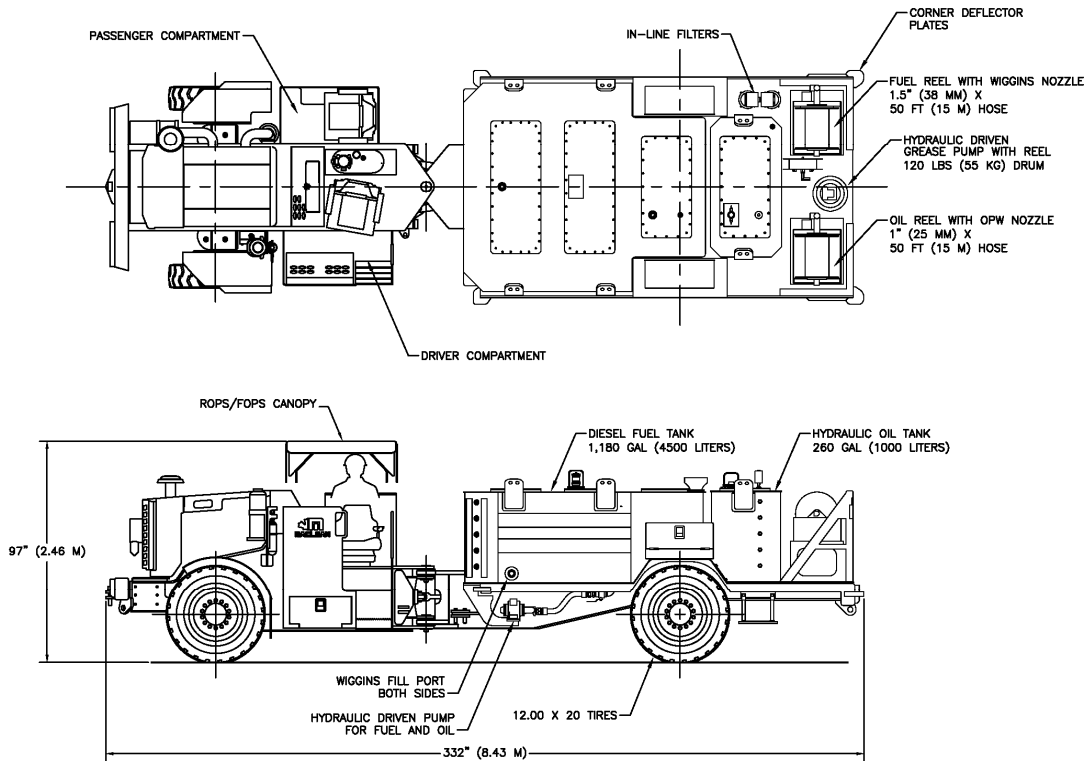
Benefits

- Self loading / unloading capability
- Long life power train using industry proven components
- Clean burning, fuel-efficient engine minimizes harmful emissions
- Low cost, dependable mine supply vehicle
- Ease of maintenance with electronic engine diagnostics, accessible fuel filling and grease points
- Superior traction due to four wheel drive and Powershift transmission

Applications

- The FL-3 is a rugged and dependable means of transferring and dispensing bulk fluids. Flexibility and maneuverability allow the vehicle to service fueling stations or deliver direct to remotely located vehicles.
- Transportation between surface and underground levels via internal ramp network

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Shown with optional equipment included

Weights and Dimensions

Empty vehicle weight – 35,000 lbs (15,900 kg)
 Width- 96" (2.44 m)
 Length – 332" (8.43 m)
 Traming height – 97" (2.46 m)

+/- 40 degrees steering angle
 Inside turning radius – 227" (5.77 m)
 Outside turning radius – 337" (8.56 m)

Speed Range

Mercedes / Clark / New Holland Power Train

- 1st gear on flat – 2.3 mph (3.6 km/h)
- 2nd gear on flat – 4.8 mph (7.7 km/h)
- 3rd gear on flat – 8.3 mph (13.3 km/h)

Caterpillar Power train

- 1st gear on flat – 2.8 mph (4.5 km/h)
- 2nd gear on flat – 4.8 mph (7.7 km/h)
- 3rd gear on flat – 8.7 mph (14.0 km/h)

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Power End Standard Equipment

Mercedes 904 liquid cooled diesel engine;

- Rated 147 hp (110 kW) at 2300 rpm – MSHA certified
- 4 cylinder – 4 stroke – Electronically controlled
- Turbo charged / Air to air charge cooled
- Mesabi radiator and cooling package
- 40 US gal (150 L) diesel tank

Dana Clark 32000 series powershift transmission;

- 3 speeds forward and reverse
- Electric shift control

New Holland D65I axles;

- Inboard planetary gears
- No-spin differential on engine side
- Standard differential on boom side
- Mico SAHR failsafe brake actuators
- Internal wet disk brakes
- +/- 10 degrees oscillation on power end axle
- Fixed mounting on application end axle

Brake system;

- Independent front/rear hydraulically operated service brakes
- Spring applied, hydraulic released emergency/park brakes
- Automatic Brake Application (ABA) with manual reset

Wheels and Tires;

- 12.00 x 20 tire size
- 20 ply pneumatic, lugged thread design

Driver and passenger compartments;

- Side entry away from articulation joint
- Driver's position – Center seated facing outward
- Passenger position – Side seated facing forward
- Deluxe suspension seats with seat belts for driver and passenger
- Stick steering controls
- Anti-slip dimple plate on all step surfaces

Frames;

- Heavy duty plate construction with modular tear down capability
- 40 degrees steering angle with dual steering cylinders
- Grouped grease fittings for articulation joint, steering pins and oscillating axle
- Heavy duty front and rear bumpers with towing capability
- Articulation lock bar
- Wheel chock holders

Hydraulic system;

- Closed center hydraulic circuit
- 30 gpm (110 L/min) piston pump
- 3000 psi (200 bar) system pressure
- 25 US gal (95 L) hydraulic tank
- 10 micron return filter

Electrical system;

- 24 Volt with master disconnect with lock out feature
- 95 amp / 24 volt alternator
- 800 CCA batteries
- 500 amp fuse starter protection
- Re-settable circuit breakers
- 6 headlights forward and 4 reverse
- Back-up alarm
- Strobe light
- Stainless steel enclosures

Exhaust system;

- Purifier and muffler assembly
- Insulation blankets on exposed components
- Emission test port

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Application End Standard Equipment

Fuel transfer system:

- 1,180 US gal (4500 Litres) capacity
- Heavy duty all steel construction with baffles
- Wiggins fill ports on each side
- Hydraulic driven transfer pump
- 50 gpm (190 L/min) pump rate
- 50 ft x 1.5" (15 m x 38 mm) hose with reel
- Wiggins fast fill nozzle

Hydraulic oil transfer system:

- 260 US gal (1000 Litres) capacity
- Heavy duty all steel construction with baffles

- Hydraulic driven transfer pump
- 10 gpm (38 L/min) pump rate
- 50 ft x 1" (15 m x 25 mm) hose with reel
- OPW type nozzle

Grease transfer system:

- 120 lbs (55 kg) capacity
- Hydraulic driven transfer pump
- 50 ft x 3/8" (15 m x 10 mm) hose with reel
- Nozzle with swivel

Optional Equipment

Mercedes 906 engine upgrade;

- Rated 201 hp (150 kW) at 2300 rpm – MSHA certified
- 6 cylinder – 4 stroke – Electronically controlled

Caterpillar power train components;

- Cat C6.6 rated 156 hp (116 kW) or 213 hp (158 kW) at 2300 rpm
- 6 cylinder – 4 stroke – Electronically controlled
- Cat 535C powershift transmission
- Cat 938G drive axles
- Payload increase to 26,000 lbs (11,800 kg)

John Deere 1400 series axles;

- Payload increase to 32,000 lbs (14,500 kg)

Certified ROPS & FOPS open canopy

Certified ROPS & FOPS enclosed cabin;

- Heating and AC systems
- Pressurized air and sound suppression
- Windshield wiper and washer systems

Exhaust blankets and shielding

Fire suppression, Checkfire, hand held extinguisher

Auto lube system

Choice of tires;

- Pneumatics, solids and filled
- Aircraft retreads

Alternate tank capacities

Engine driven compressor

Wiggins fill port on hydraulic tank

Additional fluid transfer systems

Tool box(s)

Additional options available upon request

Manuals and Warranty

Parts, Operators and Maintenance manuals

- 3 sets of hardcopies
- "Catbase" or "Link One" electronic parts books
- French and Spanish parts manuals available

MAC-10 Warranty

- 1 year standard warranty
- Extended to 2 years on power train
- Extended to 7 years on frame

*The manufacturer reserves the right to change the specifications or design of this machine at any time without notification.