Operator's Manual

TB42
TB420
TB50

diesel – gasoline – LPG



Snorkel

P/N 0074333
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OmniQuip Snorkel INTERNATIONAL

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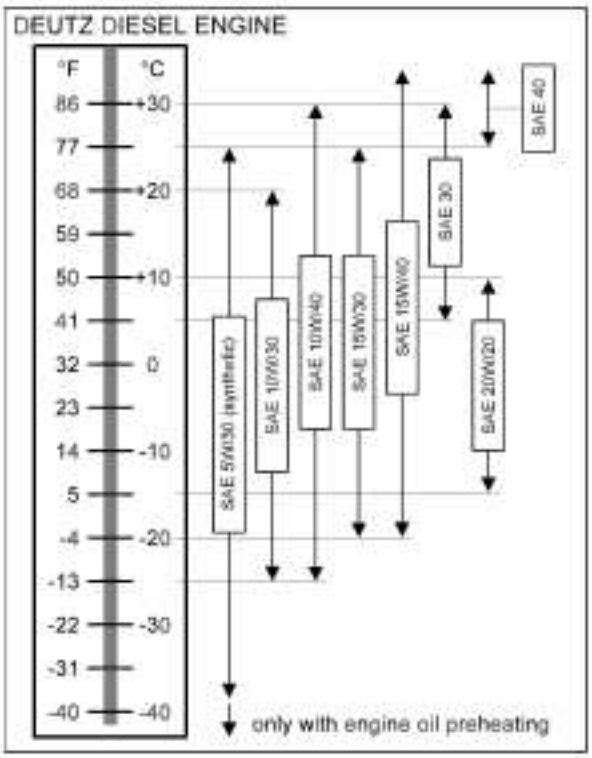
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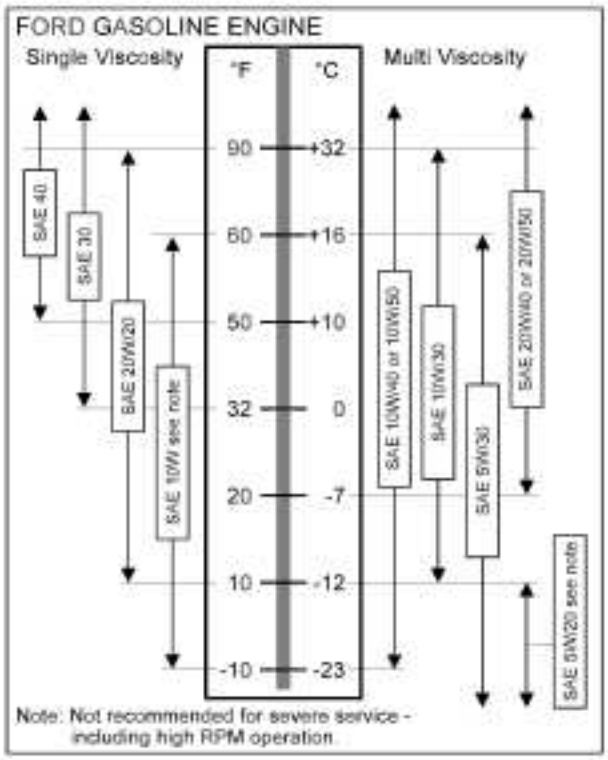
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■ ENGINE DATA: TB 42/420/50

ENGINE MAKE	DEUTZ	FORD (gasoline)	FORD (LPG)
MODEL	F3L-1011F	VSG-411	
COOLANT	air	50% water + 50% ethylene glycol	
FUEL	diesel	gasoline	LPG (liquefied petroleum gas)
FUEL GRADE	DIN 51 601. BS 2869: A1 and A2. ASTM D 975-81: 1-D and 2-D. W-F-800C: DF-A, DF-1, and DF-2.	unleaded 87 octane (motor method).	HD5 Gas Processors Association Standard 2140. Category: special duty propane.
OPERATING TEMPERATURE	172°F - 203°F (78°C - 95°C)	160°F - 190°F (71°C - 88°C)	
OIL SUMP CAPACITY	5.5 qt USA (5.2 liters)	3 qt USA (2.8 liters)	
OIL FILTER CAPACITY	0.5 qt USA (0.5 liters)	0.5 qt USA (0.5 liters)	
OIL GRADE	API: CC/SE CC/SF CD/SE CD/SF CE/SF CE/SG	API: SG, SG/CC, or SG/CD	
OIL WEIGHT	see chart below	see chart below	
RUNNING TIME (one tank fuel)	Any tank of fuel (regardless of whether it is LPG, gasoline, or diesel) will last an entire eight hour shift, under normal working conditions.		

■ ENGINE OIL CHARTS



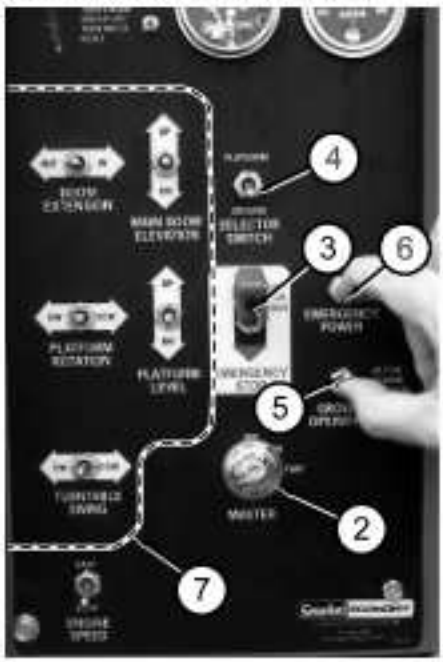


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❑ Used From the Ground-Control Panel



1. Set the **BATTERY** switch (1) to ON.



2. Set the **MASTER** switch (2) to ON.

3. Set the **EMERGENCY STOP** switch (3) to UP FOR RUN.

4. Set the **SELECTOR SWITCH** (4) to GROUND.

5. Push and continue to hold the **GROUND OPERATION** switch (5) up.

6. Move a platform-moving switch (7) the way you want the platform to move.

7. Push and continue to hold the **EMERGENCY POWER** switch (6) down.

8. When the platform is safely retrieved, release the switches and turn the **MASTER** switch (2) to OFF.

❑ Used From the Platform-Control Box

For **EMERGENCY POWER** to be used from the platform-control box, certain switch settings must exist at the ground-control panel and in the battery compartment. The switch settings are:



1. **BATTERY** switch (1) must be ON.



2. **MASTER** switch (2) must be ON.

3. **EMERGENCY STOP** (3) must be UP FOR RUN.

4. **SELECTOR SWITCH** (4) must be set to PLATFORM.

EMERGENCY POWER can now be used from the platform-control box by doing the following:

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10. DAILY INSPECTION & MAINTENANCE

At the start of each work day (or 8 hour shift) a TB 42/420/50 qualified operator must perform the DAILY INSPECTION AND MAINTENANCE listed in the table below.

The purpose of the daily inspection and maintenance is to keep the TB 42/420/50 in proper working condition and to detect signs of malfunction at the earliest possible time.

⚠DANGER

Do not operate a TB 42/420/50 that is known to be damaged or malfunctioning. Defective parts or equipment malfunctions jeopardize the safety of the operator and other personnel, and can cause damage to the machine.

DAILY INSPECTION AND MAINTENANCE

(Set the **MASTER** switch to OFF before you begin this inspection.)

ITEM	SERVICE REQUIRED
1. Engine fuel level	Check fuel gauge (full)
2. Fuel tank cap	Visually inspect (installation)
3. Engine oil	Check oil level (between dipstick lines)
4. Fuel leaks	Visually inspect (hoses, connections, etc.)
5. Engine coolant	Check fluid level and radiator hoses
6. Wiring harnesses	Visually inspect (installation, condition)
7. Battery terminals	Visually inspect (corrosion)
8. Battery fluid level	Check fluid level (in contact with filler neck)
9. Hydraulic oil	Check oil level (between lines on gauge)
10. Hydraulic oil leaks	Visually inspect (hoses, tubes)
11. Tires	Visually inspect (condition)
12. Bolts and fasteners	Visually inspect (looseness)
13. Structural damage & welds	Visually inspect (weld cracks, dents)
14. Guardrails	Visually check condition
15. Platform gravity gate	Visually inspect (operation)
16. Self-closing gate (option)	Actuate and visually check condition
17. Lanyard anchor points	Visually check condition
18. Emergency power motor/pump	Check operation (causes correct motion)
19. Air filter	Check condition (gauge)
20. Charging system	Visually inspect (gauge)
21. Ground-control panel switches and alarms	Actuate and visually check for operation
22. Level sensor	Actuate and listen for alarm to sound
23. Platform-control box switches and alarms	Actuate and visually check for operation
24. GFCI (ground fault circuit interrupt) (option)	Actuate and visually check for operation
25. Placards and decals	Visually inspect (installation, condition)
26. Platform work lights (option)	Turn them on to see that they work
27. Flashing light (option)	Turn it on to see that it works
28. Driving lights (option)	Turn them on to see that they work
29. Slide pads	Visually inspect (installation, boom-wear marks)
30. Wire ropes	Visually inspect (condition)

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(Tow option only)

DANGER

A "RUNAWAY" SNORKELIFT CAN CAUSE **DEATH** OR SERIOUS INJURY. CHECK WITH TOW VEHICLE MANUFACTURER OR MANUFACTURER'S LITERATURE TO SEE THAT TOW VEHICLE CAN SAFELY TOW AND STOP TOTAL WEIGHT OF SNORKELIFT ON THE STEEPEST GRADE YOU WILL ENCOUNTER. REMEMBER, SNORKELIFT DOES NOT HAVE BRAKES WHEN IT IS TOWED.

BE CERTAIN TOW VEHICLE BRAKES ARE SET AND TOW BAR IS CONNECTED TO BOTH TOW VEHICLE AND SNORKELIFT BEFORE YOU TURN SNORKELIFT DISCONNECT-PLATES OVER.

AT THE END OF THE TOW, BEFORE YOU DISCONNECT THE SNORKELIFT FROM THE TOWING VEHICLE, TURN THE DISCONNECT-PLATES BACK OVER SO THE NIPPLES ARE OUT. THAT WILL PREVENT THE MACHINE FROM ROLLING WHEN YOU DISCONNECT IT FROM THE TOW VEHICLE.

DO NOT EXCEED 10 MPH (16 KM/HR) WHEN TOWING. AVOID SHARP TURNS.

Snorkelift

MODEL NO. _____ SERIAL NO. _____

UNRESTRICTED PLATFORM CAPACITY UNIT ON FIRM AND LEVEL SURFACE BOOM IN ANY POSITION ..... _____ LBS. KG

PLATFORM REACH - MAXIMUM ..... _____ FT. M

PLATFORM HEIGHT - MAXIMUM ..... _____ FT. M

CAUTION

PROPER STABILITY OF UNIT IS BASED ON FOLLOWING.

PLATFORM SIZE ..... _____

AXLE WEIGHTS WITH UNIT IN STOWED-TRAVEL POSITION.

STEER AXLE .... _____ LBS.

DRIVE AXLE .... _____ LBS.

DO NOT REMOVE ANY WEIGHT FROM UNIT.
ANY WEIGHT ADDED TO UNIT MUST BE DISTRIBUTED EQUALLY ON EACH AXLE.

Snorkel ST JOSEPH, MISSOURI U.S.A.

(LPG option only)

CAUTION

THIS MACHINE IS EQUIPPED WITH

LIQUID WITHDRAWAL

L.P. GAS SYSTEM

- LIQUID OR VAPOR WITHDRAWAL L.P.-GAS CYLINDER MAY BE USED.
- ALWAYS KEEP L.P.-GAS CYLINDER SHUT-OFF VALVE CLOSED WHEN NOT USING L.P.-GAS SYSTEM.

DANGER

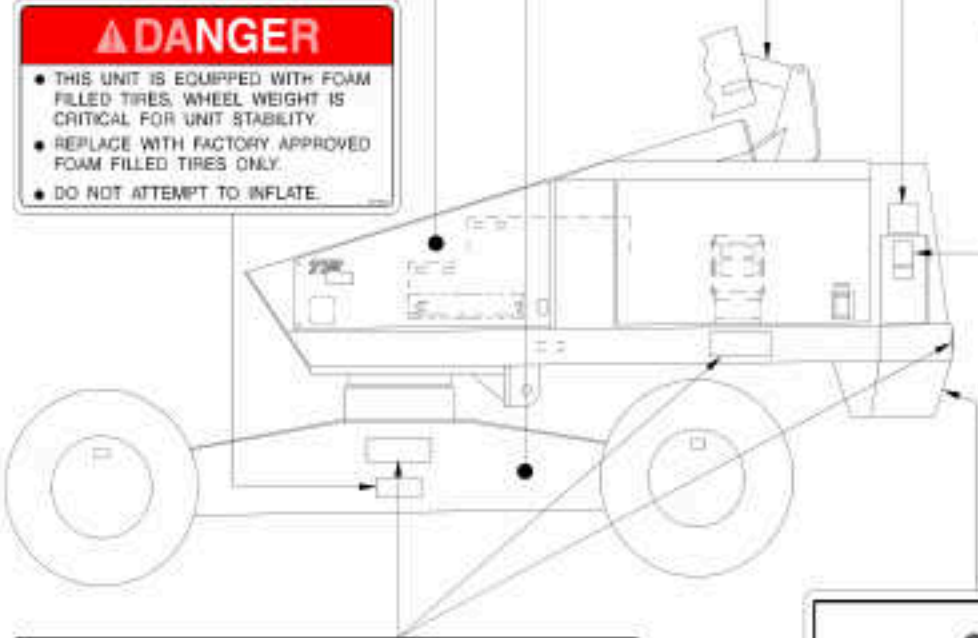
Using incorrect parts can cause cylinder failure. Death or serious injury may result.

Use only:

APPROVED Snorkel "PARTS"

DANGER

- THIS UNIT IS EQUIPPED WITH FOAM FILLED TIRES. WHEEL WEIGHT IS CRITICAL FOR UNIT STABILITY.
- REPLACE WITH FACTORY APPROVED FOAM FILLED TIRES ONLY.
- DO NOT ATTEMPT TO INFLATE.



DANGER

YOU MUST NOT OPERATE THIS DEVICE UNLESS

DANGER

ELECTROCUTION HAZARD

KEEP CLEAR

DEATH OR SERIOUS INJURY CAN RESULT FROM CONTACT WITH THIS EQUIPMENT OR VEHICLE IF IT SHOULD BE ELECTRICALLY CHARGED.

DANGER

CRUSHING HAZARD

DEATH OR SERIOUS INJURY CAN RESULT FROM BEING CRUSHED BETWEEN COUNTERWEIGHT AND TOW VEHICLE.

DO NOT ATTEMPT TO ATTACH TOW BAR TO TOW VEHICLE UNLESS SNORKELIFT COUNTERWEIGHT IS TO SIDE OF CHASSIS.

(Tow option only)

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