VIBROMAX

255 / 265 TANDEM ROLLER

SERVICE MANUAL SM61005

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FLUID SPECIFICATIONS

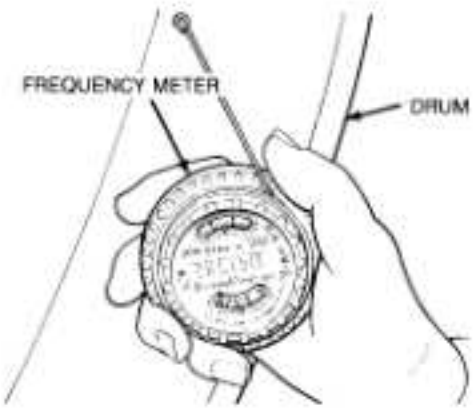
MACHINE PART	CAPACITY USA (metric)	SPECIFICATIONS
Fuel tank	16.6 gal (63 l)	see diesel fuel
Engine crankcase	6 qts(5.6 l)	engine oil API classification API-CD MIL-L-2104C multigrade engine oil (see oil chart) single grade engine oil (see oil chart)
Hydraulic system Reservoir only	15.9 gal (60 l) 13.2 gal (47 l)	cold weather HLP 46 DIN 51524 hot weather HLP 68 DIN 51524 Mobil DTE 25,26 Shell Tellus OL 46,68 Amoco Rykon HD 46,68 Texaco Rando HD 46,68
Vibration system 255 265	(each drum) 1.3 qts. (1.2 l) 1.9 qts. (1.8 l)	Mobil Gear 627
Battery	as required	Distilled water
Grease	as required	KP3K DIN 51502 Mobil Oil - Mobilux 3 Shell Oil - Alvania 3 Texaco Oil - Starplex 3
Engine coolant	8.5 qts (8 l)	50% ethylene glycol and 50% water
Sprinkling Device	52.8 gal (200 l)	Tap water

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VIBRATION SYSTEM DIAGNOSTICS

VIBRATION FREQUENCY

The model 255/265 has only one vibration frequency. To test the vibration frequency, put rubber tires or matting under the machine drums. Check the engine high idle speed for proper adjustment. Start the engine and run it at high idle. Operate one drum at a time while holding a frequency meter against the drum.



Refer to the frequency meter manufacturer's instructions for more details. Vibration frequency for both the 255 and 265 should be 3480 vibrations per minute or 58 cycles per second.

The system pump and motor are fixed displacement units so variations in frequency are normally due to improper engine operating speed, mechanical drag (example: bad bearings), a hydraulic malfunction or an electrical problem.

Hydraulic test ports MP5 and MP6 are provided at the test station to check the front and rear vibration system pressures. The system relief valves are set at 2600 PSI (180 bar). Pressure at MP5 will normally read about 1800 psi with the front drum vibrating. Normal operating pressures at MP6 are expected to be 1800 psi while operating one drum and about 3600 psi while operating vibration on both drums. The pressure might spike higher at first start up.

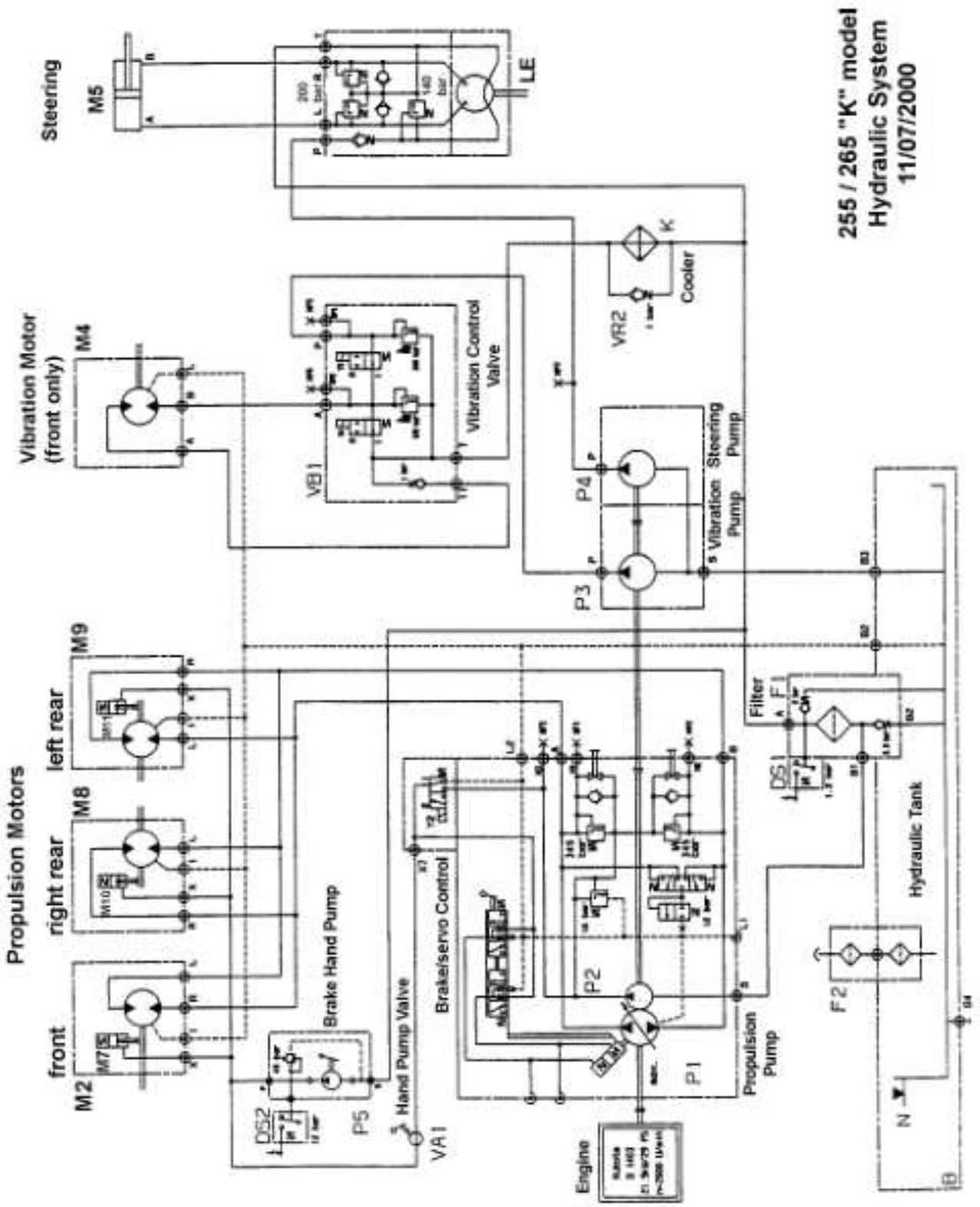
If the pressure is constantly at 2600 psi while operating any single drum, this would be an indication that there is some type of mechanical drag.

If the pressure is below 2600 psi while operating one drum and the vibration frequency checks low, it is possible that the system relief valves found on the vibration control valve are sticking or need to be adjusted. The vibration control valve is located on the left side of the machine under the operator's seat.

If you are unable to develop any hydraulic pressure, check the vibration control valve for problems (possibly electrical). For more information on troubleshooting electrical problems see the electrical section of this manual.

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HYDRAULIC SCHEMATIC ("K" model)



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