



Caterpillar

Operator's Manual

D5 Crawler

S/n 52H1, 83H1

84H1 & up

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or Call 800-443-0625



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Operator's Manual

CT-O-D5 52H1+

ITEM

SERVICE

SERVICE CHECK

SUPERIOR LUBRICANTS (SERIES 3)

SUPERIOR LUBRICANTS (SERIES 3),
MIL-L-2104A OR MIL-L-2104BBALL AND ROLLER BEARING
LUBRICANT

EVERY 10 SERVICE HOURS

① Diesel engine crankcase	Check oil level	X	X		
② Transmission, bevel gear and torque converter compartment	Check oil level	X	X		
③ Starting engine crankcase	Check oil level	X		X	
④ Hydraulic control system	Check oil level	X		X	
⑤ Radiator	Check coolant level	X			
⑥ Ripper linkage and pivots	Lubricate				X
⑦ Ripper teeth	Check	X			
⑧ Tilt cylinder control linkage	Lubricate				X
⑨ Cable	Inspect	X			
⑩ Bulldozer sheaves	Lubricate				X
⑪ Equalizer spring pivot pin	Lubricate				X
⑫ Track roller frame outer bearings	Lubricate				X
⑬ Hydraulic cylinder pivot points	Lubricate				X
⑭ Steering clutch release bearings	Lubricate				X
⑮ Track roller frame inner bearings	Lubricate				X
⑯ Tool bar beam adjusting screws	Lubricate				X
⑰ Air cleaner	Check indicator—Service	X			
⑱ Radiator cores	Check	X			
⑲ Precleaner	Check	X			
⑳ Ammeter	Check	X			
㉑ Cutting edge and end bits	Check	X			
㉒ Walk-around inspection	Check	X			

EVERY 50 SERVICE HOURS

㉓ Batteries	Check	X			
㉔ Steering clutch compartments	Drain—wash	X			

D5**POWER SHIFT****TRACTOR**

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BALL AND ROLLER BEARING
LUBRICANT

EVERY 50 SERVICE HOURS

25	Undercarriage	Check	X			
26	Bulldozer cylinder upper support	Lubricate				X
27	Track	Check—adjust	X			X
28	Trunnion plate mounting bolts	Check	X			
29	Hydraulic hoses	Check	X			
30	Hydraulic cylinders	Check	X			
31	Final fuel filter	Drain housing	X ^A			
	Primary fuel filter	Clean element	X ^B			
32	Final fuel filter	Replace element	X ^C			

EVERY 100 SERVICE HOURS

33	Radiator hoses and clamps	Check	X			
34	Final drives	Check oil level	X	X		
35	Fuel tank	Drain water and sediment	X			
36	Blade tilting braces	Lubricate				X
37	Starting engine fuel strainer	Clean element	X			
38	Cable control gear case	Check oil level	X	X		
39	Cable control lever shaft bearings	Lubricate				X
40	Cable control clutch lever rollers	Lubricate				X
41	Cable control sheave and shroud bearings	Lubricate				X

EVERY 250 SERVICE HOURS

42	Diesel engine crankcase	Change filter elements	X			
43	Diesel engine crankcase	Clean breather	X			
44	Starting engine crankcase and breather	Change oil—clean breather	X		X	

A—During cold weather, drain every 10 service hours.

B—Service earlier if fuel pressure gauge registers OUT.

C—Replace element when fuel pressure gauge registers OUT;
after primary element has been serviced.

SERVICE GUIDE

INDEX

ITEM

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LUBRICANT

EVERY 250 SERVICE HOURS

45	Transmission, bevel gear and torque converter compartment	Change filter element	X			
46	Transmission, bevel gear and torque converter compartment	Clean magnetic strainer	X			
47	Water pump bearing	Lubricate				X
48	Track adjuster screws	Lubricate				X
49	Fan and generator belts	Check—adjust	X			
50	Fan belt adjusting pulley	Lubricate				X
51	Steering clutch brakes	Check—adjust	X			
52	Diesel fuel tank filler cap	Clean	X ^D		X	
53	Diesel fuel tank filler strainer	Clean	X			
54	Cable control gear case breather	Clean	X		X	

EVERY 500 SERVICE HOURS

55	Diesel engine crankcase	Change oil		X ^E		
56	Transmission, bevel gear and torque converter compartment	Clean breather ^I	X			
57	Hydraulic control system	Change filter element	X			

EVERY 1000 SERVICE HOURS

58	Transmission, bevel gear and torque converter compartment	Change oil		X ^F		
59	Final drives	Change oil		X ^G		
60	Hydraulic control system	Change oil			X ^J	
61	Diesel engine valve lash	Check—adjust	X			

D—In dusty conditions, service every 50 service hours.

E—Normal change interval when fuel sulphur content is 0.4% or less.
When sulphur content is 0.4% to 1.0% reduce interval one-half—
above 1.0% reduce to one-fourth the normal interval. Use Superior
Lubricants (Series 3) only.

F—When oil becomes thick and black, change every 500 service hours.

G—In dust, deep mud or water, change every 500 service hours.

I—If equipped with plastic
breathers, remove old breathers
and install new plastic
breathers every 1000 service
hours.

J—When operating in ambient
temperatures below 100°F (38°C)
extend oil change period to
2000 service hours.

D5 **POWER SHIFT**
TRACTOR

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EVERY 1000 SERVICE HOURS

62	Wiring	Inspect	X			
63	Radiator pressure overflow unit	Clean	X			
64	Cooling system	Flush	X			
65	Sprocket hub bearings	Check	X ^H			
66	Steering clutches	Check adjustment	X			
67	Starting engine crankcase	Change filter	X			
68	Starting engine magneto	Check	X			
69	Starting engine clutch	Check—adjust	X			
70	Starting engine clutch brake	Check—adjust	X			
71	Fair-lead sheave lower bearings	Lubricate				X
72	Cable control gear case	Change oil—wash		X		

EVERY 2000 SERVICE HOURS

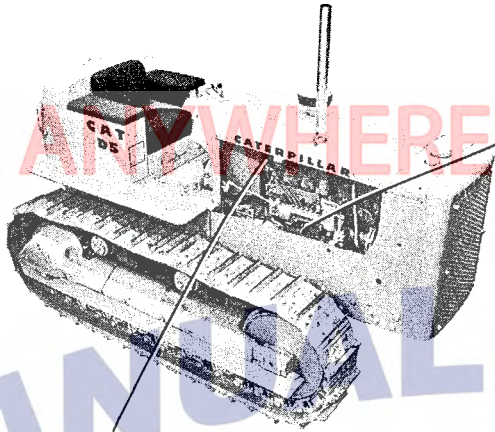
73	Starting engine carburetor	Check—adjust	X			
74	Starting engine valve lash	Check—adjust	X			
75	Starting engine spark plugs	Check—gap	X			
76	Ether starting aid	Clean	X			
77	Starting engine air cleaner	Replace element	X			
78	Transmission control lever linkage	Lubricate				X
79	Steering clutch control linkage	Lubricate				X
80	Brake control linkage	Lubricate				X

H— Check after 100 and 250 service hours operation of new machine.

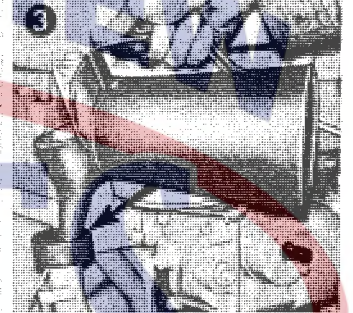
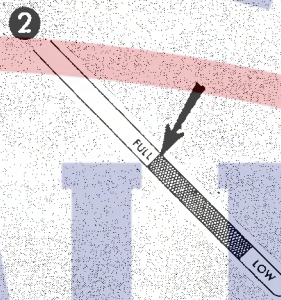
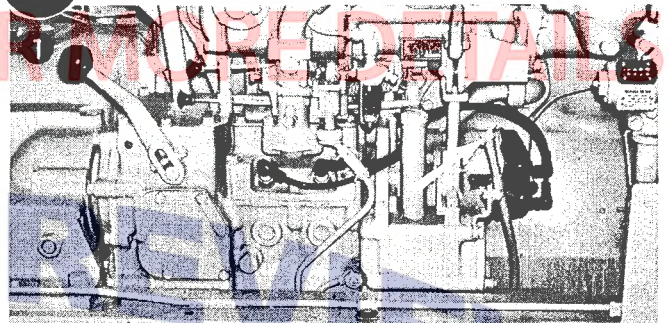
SERVICE GUIDE

INDEX

CLICK ANYWHERE FOR MORE DETAILS

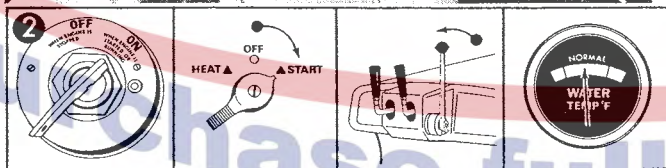


3 Check starting engine crankcase oil level

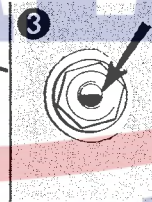


- LEVEL at FULL
- ADD oil as required

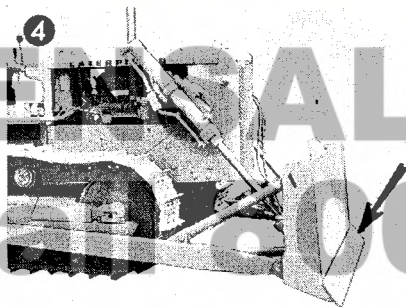
4 Check hydraulic control system oil level



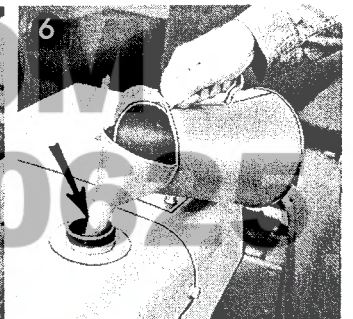
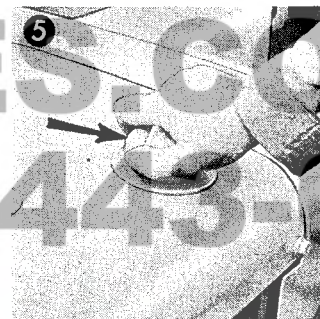
- Engine RUNNING at LOW IDLE



- Oil VISIBLE in sight gauge



- Equipment LOWERED

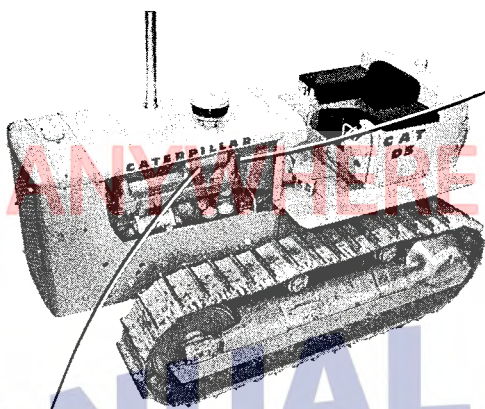


- To add oil — remove cap slowly to relieve pressure
- ADD oil as required

CLICK ANYWHERE FOR MORE DETAILS

17

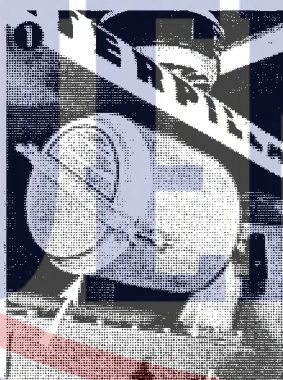
Check air cleaner service indicator



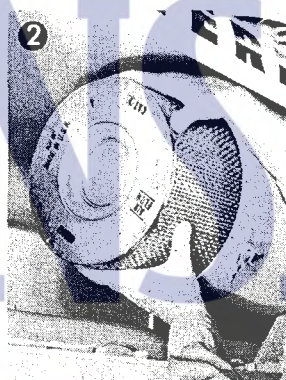
Caution: Never service air cleaner while engine is operating

- If RED indicator band is VISIBLE — service air cleaner

SERVICING PRIMARY ELEMENT



- REMOVE cover



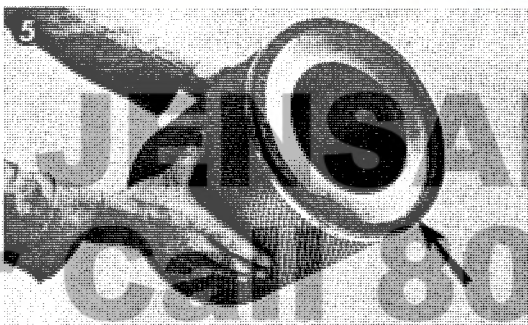
- REMOVE primary element



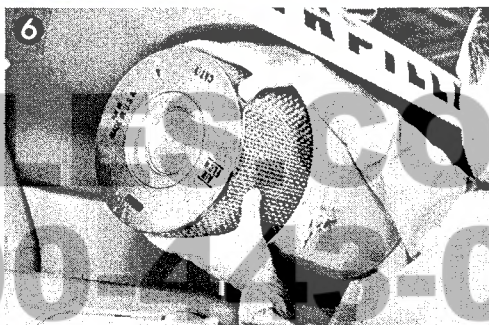
- CLEAN inside body



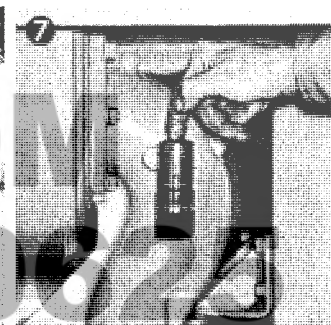
- CLEAN cover



- INSPECT element
See GENERAL INSTRUCTIONS



- INSTALL clean element



- RESET

Note: Never use element with damaged pleats, gaskets or seals. Do not tap or bump element to clean

continued next page