# OPERATOR'S MANUAL

## SKID-STEER LOADER L-445

42044515

SPERRY NEW HOLLAND




Reprinted

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# SERVICE AND LUBRICATION CHARTS

## GAS AND DIESEL

Adequate lubrication, according to a regular schedule is a vital part of maintaining the Model L-445 Skid-Steer Loader. To insure long service and efficient operation, the following lubrication schedules should be followed closely.

### DIESEL ENGINE (F2L511 DEUTZ)

| | *Maximum Hourly Interval | | | | | |
|---|---|---|---|---|---|---|
| | *** 10 | 50 | 120 | 250 | 500 | 1000 |
| Check engine oil level | X** | | | | | |
| Check hydraulic oil level | X | | | | | |
| Squeeze air cleaner dust nipple | X | | | | | |
| Check engine air intake screen for trash | X | | | | | |
| Check tire pressure | X | | | | | |
| Check acid level in battery | X | | | | | |
| Lubricate axle seals | | X | | | | |
| Clean chain case breather | | X | | | | |
| Lubricate PTO splines and quick-attach plate | | X | | | | |
| Check belt tension | | X | | | | |
| Check hardware for loosening | | X | | | | |
| Clean inline hydraulic fluid screen | | X | | | | |
| Oil battery cover hinges | | X | | | | |
| Change engine oil and filter | | | X | | | |
| Clean fuel strainer in fuel lift pump | | | X | | | |
| Clean engine cooling fins (dusty, dirty conditions) | | | X | | | |
| Replace transmission oil filters | | | | X | | |
| Lubricate lift linkage pivot pins | | | | X | | |
| Check valve clearance | | | | X | | |
| Retighten axle bearings | | | | X | | |
| Replace outer air filter cartridge | | | | X | | |
| Check final drive idler adjustment bracket bolt torque | X**** | X | | | | |
| Check final drive chains | X**** | | | X | | |
| Change hydraulic oil | | | | | X | |
| Have injection nozzles tested | | | | | X | |
| Retighten intake and exhaust manifold bolts | | | | | X | |
| Retighten axle bearings | | | | | X | |
| Replace fuel filter | | | | | | X |
| Replace safety element in air cleaner | | | | | | X |
| Oil the brake control handle including adjusting threads | | X | | | | |

* More frequent maintenance may be necessary under severe service.
** Twice a day during first 200 hours of run-in.
*** Indicates maintenance required once per day or once per shift.
**** First time only.



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## GAS ENGINE (VH4D WISCONSIN)

| | *** | *Maximum Hourly Interval | | | | |
|---|---|---|---|---|---|---|
| | 10 | 20 | 50 | 100 | 250 | 500 |
| Check engine oil level | X | | | | | |
| Check hydraulic oil level | X | | | | | |
| Squeeze air cleaner dust nipple | X | | | | | |
| Check engine air intake screen for trash | X | | | | | |
| Check tire pressure | X | | | | | |
| Check acid level in battery | | X | | | | |
| Back flush air through engine shrouding | | X | | | | |
| Lubricate PTO splines and quick-attach plate | | | X | | | |
| Change engine oil | | | X | | | |
| Check belt tension | | | X | | | |
| Clean inline hydraulic fluid screen | | | X | | | |
| Check hardware for loosening | X** | | X | | | |
| Check battery cover hinges | | | X | | | |
| Clean chain case breather | | | X | | | |
| Replace engine oil filter | | | | X | | |
| Replace transmission oil filters | | | | | X | |
| Remove engine shrouding and clean fins | | | | | X | |
| Clean or replace spark plugs | | | | | X | |
| Check RPM's, choke setting and timing | | | | | X | |
| Check final drive idler adjustment bracket and bolt torque | X** | | X | | | |
| Check final drive chains | X** | | | | X | |
| Lubricate lift linkage pivot pins | | | | | X | |
| Replace air cleaner cartridge | | | | | X | |
| Replace inline fuel filter | | | | | X | |
| Change hydraulic oil | | | | | | X |
| Remove engine head, clean and reseat valves | | | | | | X |
| Retighten axle bearings | | | | | | X |
| Lubricate axle seals | | | X | | | |
| Oil brake control handle including adjusting threads | | | X | | | |

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** First time only.
*** Indicates maintenance required once per day or once per shift.



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