1 December 1983 (Supersedes M60A1 Portions of LO 9-2350-215-12, 22 August 1977)

TANK, COMBAT, FULL TRACKED, 105-MM, M60A1 (2350-00-756-8497 AND 2350-01-058-9487 AOS) Reference: TM 9-2350-215-10 Series, TM 92350-215-20-1 Series, and TM 9-2350-215-20-2 Series

FOR ALL LUBRICATION INTERVALS:

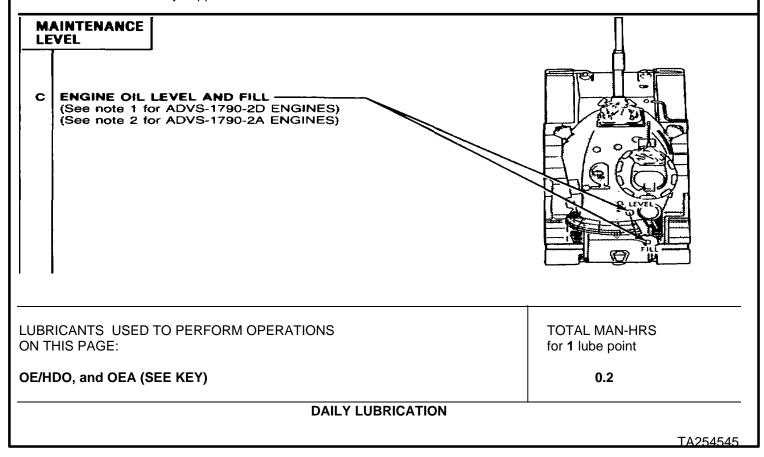
Hard (fixed) time intervals and the related man hour times are based on normal operation. The man-hour times specified is the time you need to do all the services prescribed for a particular interval. Change the interval. If your lubricants are contaminated or if you are operating the equipment under adverse conditions, including longer-than-usual operating hours. The interval may be extended during periods of low activity If extended adequate preservation precautions must be taken.

On-condition (OC) intervals for oil changes shall be determined by the Army 001 Analysis Program (AOAP) laboratory and shall be applied unless otherwise notified.

Hard (fixed) time oil change intervals will be applied in the event AOAP laboratory support is not available Park vehicle on level ground to check oil levels. Clean fittings before and after lubricating with a dry lint-free cloth. Lubricate all items found contaminated after fording or washing. Broken arrow shafts (--→) indicate lubrication points on both sides of the vehicle. Level of maintenance for lubrication requirements is indicated in edge column by (C) for Crew/Operator and (O) for Organizational.

Reporting errors and recommending improvement.

You can help improve this lubrication order if you find any mistakes or if you know of a way to improve the procedures, please let us know. Mall your letter on DA Form 202B (Recommended Changes to Publications and Blank Forms) direct to Commander, U S Army Tank-Automotive Command ATTN DRSTA-MB, Warren, Mi. 48090 A reply will be furnished to you.



		E	TURES*		
LUBRICANT/COMPONENTS	Refill	Above +32°F	+40°F to10°F	0°F to65°F	
	Capacity	(Above 0°C)	(+4°C to23°C)	(17°C to53°C)	
OE/HDO: Oil, ICE, Tactical		NOTE			
MIL-L-2104		When air temperature is consistently			
		above +60°F (+15°C), use OE/HDO-50 in engine			
OEA Oil, Engine, Arctic					
Engine - 2D	As Required	OF/HDO-30	OE/HDO-10	OFA	
Engine - 2A	As Required	32/1120 00	32/1120 10		

NOTES:

*For Arctic Operation refer to FM 9-207

1 ENGINE OIL CHECKING PROCEDURES FOR VEHICLES EQUIPPED WITH AVDS-1790-2D ENGINES. Check engine oil levels daily after operating the engine. The vehicle must be parked on level ground to obtain an accurate oil level reading

Checking procedure for

<u>Engine Running, Cold Oil</u>. When the oil level Is checked after the engine has been started, but operated at 700 to 1200 rpm for only 5 to 10 minutes, the oil temperature will be below normal operating temperature

1. Check the oil level (with engine idling at 700 to 750 rpm). If the level is in the "IDLING RANGE" (between the "ADD" and "HOT FULL" marks), the engine is safe to operate.

-2D FULL OF RANGE OF RANGE

2. If the oil level is below the "ADD" mark, add oil as necessary to bring the level to the "COLD FULL" mark.

NOTE: On the backside of dipstick are four hashmarks, the distance between each mark is 2 gallons. When oil level shows low on dipstick, turn to these marks to determine the correct amount of oil to add.



Engine Running Hot Oil.

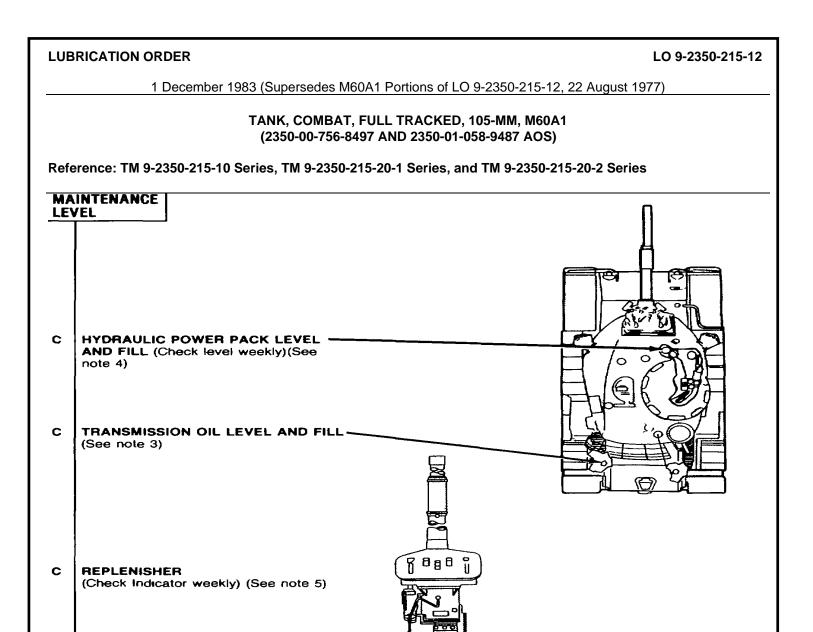
- 1 Check oil level with engine Idling at 700 to 750 rpm. After a hot run, the oil level will be 2 to 3 inches above the "HOT FULL" mark. This would be normal under these conditions due to oil expansion and aeration
- 2 If the tactical situation permits, allow the engine to idle at 700 to 750 rpm for 5 to 10 minutes and check the level again.
 - a If the oil level is above the "ADD" mark, the engine is safe to operate. However, oil may be added pending expected mission duration.
 - b If the oil level is below the "ADD" mark, add oil as necessary to bring the level to the "HOT FULL" mark.

NOTE Any added oil will not show on the dipstick until after the engine has been running several minutes.

2 ENGINE OIL CHECKING PROCEDURE FOR VEHICLES EQUIPPED WITH AVDS-1790-2A ENGINES.

Check engine oil levels daily after operating the engine. Run engine at 1000 to 1200 rpm until the engine oil temperature gage reads In the green band, or a maximum of ten minutes. With the engine idling at 700 to 750 rpm, check oil level. Oil level should be between ADD and FULL marks, if low, add oil as required to engine to bring level to FULL mark on the dipstick Long sustained full load engine operation may result in engine oil levels slightly above the FULL mark. This is acceptable since hot oil occupies more space than cold oil.

2A	CHECK OIL	WITH ENGINE IDLING	FULL	QQV



LUBRICANTS USED TO PERFORM OPERATIONS ON THIS PAGE:

OE/HDO, OEA, and FRH (SEE KEY)

TOTAL MAN-HRS for 3 lube points

0.6

DAILY AND WEEKLY LUBRICATION

Gun, 105-MM

		EXPECTED TEMPERATURES*		
LUBRICANT/COMPONENTS	Refill Capacity	Above +32°F (Above 0°C)	+40°F to10°F (+4°C to23°C)	0°F to65°F (17°C to53°C)
OE/HDO: Oil, ICE, Tactical MIL-L-2104 OEA: Oil Engine, Arctic MIL-L-46167		OE/HDO		OEA
Transmission	As Required			
FRH: Hydraulic Fluid, Rust Inhibited, Fire Resistant, Synthetic Hydrocarbon Base MIL-H-46170 Type I				
Replenisher	As Required	ALL	TEMPERATURES	
Hydraulic Power Pack	As Required			

*For Arctic Operation refer to FM 9-207

NOTES:

3. TRANSMISSION OIL LEVEL CHECKING PROCEDURE Set parking brakes with shift lever in PARK. Start engine and run at 1000 to 1200 rpm until transmission oil temperature gage reads in green band. With engine idling at 700 to 750 rpm, check oil level. Oil level should be between ADD and FULL marks. If low add oil as required to transmission to bring level to FULL mark on transmission dipstick.

NOTE

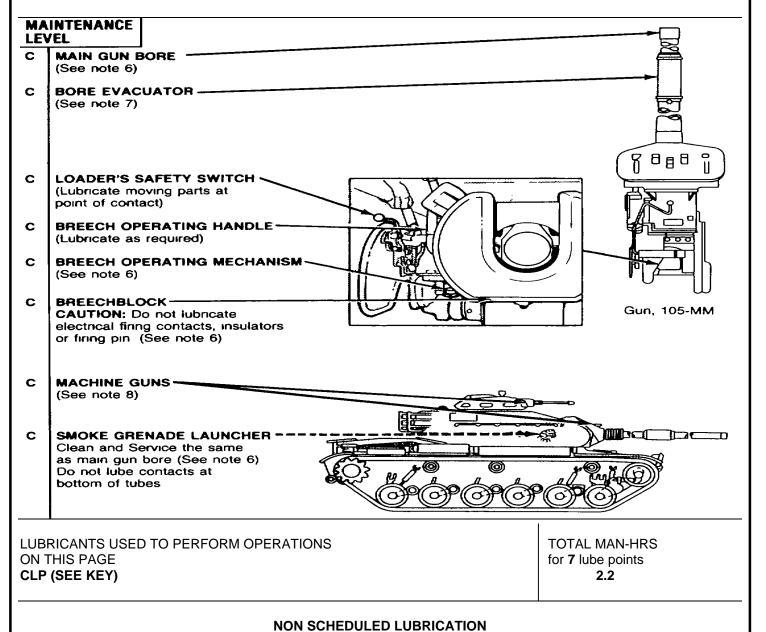
Oil level on the transmission dipstick must be at or above the ADD mark. Approximately three gallons of oil will raise the transmission oil level from ADD to FULL.

- 4. HYDRAULIC POWER PACK. Check fluid level weekly and before operation. With accumulator pressure gage indicating zero pressure, check liquid level at reservoir. Fluid level should be between ADD and FULL. Add or drain fluid as required If fluid is added, add to FULL mark.
- 5. REPLENISHER. Check replenisher indicator tape weekly and before firing, as indicated in TM 9-2350-215-10.

1 December 1983 (Supersedes M60A1 Portions of LO 9-2350-215-12, 22 August1977)

TANK, COMBAT, FULL TRACKED, 105-MM, M60A1 (2350-00-756-8497 AND 2350-01-058-9487 AOS)

Reference: TM 9-2350-215-10 Series, TM 92350-215-20-1 Series, and TM 9-2350-215-20-2 Series



		EXPECTED TEMPERATURES*			
LUBRICANT/COMPONENTS	Refill Capacity	Above +32°F (Above 0°C)	+40°F to10°F (+4°C to23°C)	0°F to65°F (17°C to53°C)	
CLP: Cleaner, Lubricant, Preservative MIL-L-63460					
Bore Evacuator	As Required As				
Breech Operating Handle	Required As		ALL TEMPERATUR	FS	
Main Gun Bore, 105mm	Required As		ALL TENN LIVE OF		
Loader's Safety Launcher	Required As				
Smoke Grenade Launcher	Required As				
Machine Guns	Required				

NOTES:

*For Arctic Operations refer to FM 9-207

- 6. MAIN GUN BREECH, OPERATING MECHANISM, AND SMOKE GRENADE LAUNCHER.
 - a. Before Firing: Wipe all surfaces dry.
 - b. After Firing: Immediately clean with CLP and wipe dry. Re-apply a light coat of CLP to all surfaces. Make sure all surfaces (including rifling) are coated. Do not wipe dry. Repeat process on next two days after firing.
 - c. Inactivity. If not to be fired for an extended period, quarterly clean with CLP. Wipe dry and re-apply CLP to all surfaces.

7. BORE EVACUATOR

- a. After Firing Clean with CLP. Clean tube orifices with a soft wire. Wipe dry and reapply a light coat of CLP to all surfaces. Do not wipe dry Repeat process on next two days after firing.
- b. Inactivity If not to be fired for an extended period, quarterly clean with CLP, wipe dry and re-apply CLP to all surfaces.

8. MACHINE GUNS LUBRICATION.

- a. Before Firing: Remove oil from barrel.
- b. After Firing: Clean all powder-fouled surfaces with CLP. Disassemble into major components, clean with dry cleaning solvent, P-D-680, Type II, wipe dry, and apply a light coat of CLP. Apply lubricants sparingly in grooves, camways, rails, rollers, covers and receiver assemblies. Cycle function components by hand to spread the oil DO NOT oil solenoids and DO NOT dip backplates with solenoids into any solution, DO clean with a swab or clean dry cloth.
- c. Inactivity: Clean and oil every 90 days unless inspection reveals shorter intervals are required.

NOTE

For more detailed lubrication instructions see TM 9-1005-231-10 for M85 (caliber .50 machine gun) and TM 9-1005-313-10 for M240 (7.62 mm machine gun).

1 December 1983 (Supersedes M6OA1 Portions of LO 9-2350-215-12, 22 August 1977)

TANK, COMBAT, FULL TRACKED, 105-MM, M60A1 (2350-00-756-8497 AND 2350-01-058-9487 AOS)

Reference: TM 9-2350-215-10 Series, TM 9-2350-215-20-1 Series, and TM 9-2350-215-20-2 Series

MA LE\	INTENANCE // // // // // // // // // // // // //
0	ENGINE OIL FILTERS
	(See note 10a for -2D Engine)
	(See note 10b for -2A Engine)
0	ENGINE CRANKCASE DRAIN
	(See note 10a for -2D Engine)
	(See note 10b for -2A Engine)
0	TRANSMISSION OIL FILTER
`	(Remove element, clean, dry, inspect
	and install)
0	TRANSMISSION DRAIN ————————————————————————————————————
	(See note 11)
١ _	
0	TRANSMISSION SIDE OIL SCREEN
	J (See note 12)

KEY

				EXPECTED TEMPERATURES*			
LUBRICANT/COMPONENT	S	Refill Capacity	Above				
OE/HDO: Oil, ICE, Tactical MIL-L-2104 OEA: Oil, Engine Arctic MIL-L-46167			When temperature is consistently above +60°F (+15°C) use OE/HDO-50 in Engine.				
Engine	-2D	17 gal.	OE/HDO-	OE/HDO-			
	-2A	13 gal.	50	30	OE/HDO-	OEA	
Transmission		17 gal.		OE/HDO 10	-10		

*For Arctic Operation refer to FM 9-207

LUBRICANTS USED TO PERFORM OPERATIONS ON THIS PAGE.	TOTAL MAN-HRS for 5 lube points
OE/HDO, and OEA (SEE KEY)	1.9

ON CONDITION LUBRICATION

(See note 9) TA254551

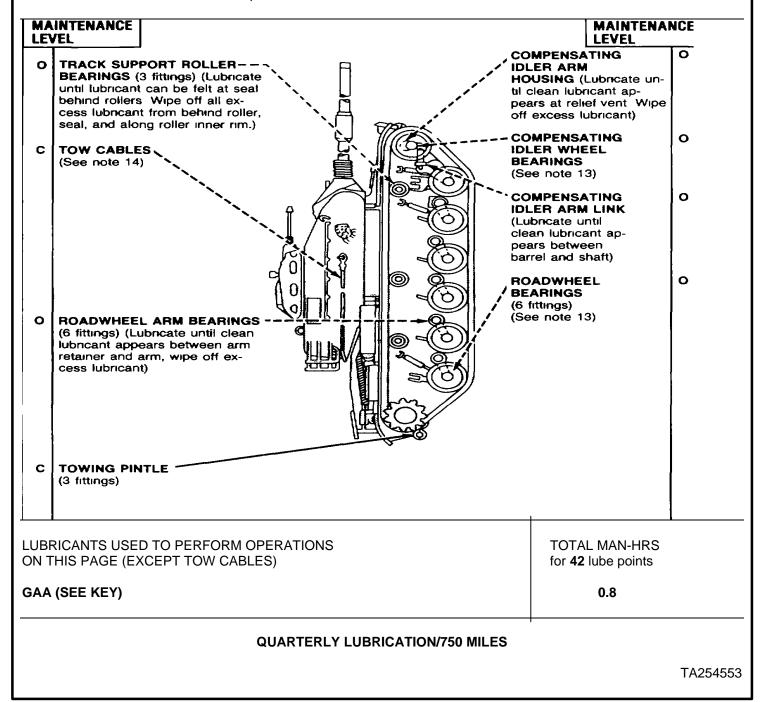
NOTES:

- 9. Oil samples from both engine and transmission must be submitted to an assigned Army Oil. Analysis Program (AOAP) laboratory every 25 hours of operation or 30 days, whichever occurs first, in accordance with TB43-0210. Oil will be analyzed for condition and will be changed only when directed by the AOAP laboratory. In the event AOAP laboratory support is not available, drain oil every 1500 miles or semiannually, which ever occurs first. Semiannual oil changes are to be coordinated with seasonal changes. When using OEA oil, drain every 750 miles or quarterly, whichever occurs first.
- 10a -2D Engine: Drain oil only after operation while oil is warm. To drain engine, remove engine drain plug access cover from bottom of hull and remove drain plug and gasket. Remove vent bolt and sealing washer (on oil filter cover) and loosen filter housing drain valve 3/4-inch hex nut (below filter cover), six turns. After draining, clean and Install drain plug, new gasket and access cover. Remove cover and filter elements from filter housing. Clean housing, Install new filter elements and reinstall housing cover with new gasket. Tighten 3/4-inch hex nut to 150 lb-in (do not over tighten). Install vent bolt and new sealing washer. Refill crankcase with 17 gallons of seasonal grade oil, start engine and follow checking procedures in note 1 on card 2.
- 10b. 2A Engine: To drain engine, park vehicle on level ground. Remove engine drain plug access cover from bottom of hull and remove both oil pan drain plugs. Loosen the stop screws on the main and auxiliary oil filters. Remove nuts and washers from oil filter covers. Pull filters out against stop screws and allow filters to drain through oil pan After draining, clean and install oil pan drain plugs with new gasket and hull access cover. Service main and auxiliary oil filters. Refill engine crankcase with 13 gallons of seasonal grade oil, start engine and follow checking procedures In note 2 on card 2.
- 11. To drain transmission, remove two drain plug access covers from bottom of hull and remove drain plugs. After draining, clean and install drain plugs and access covers. Refill transmission to ADD mark on dipstick and follow transmission oil check procedure In note 3 on card 4.
- 12 TRANSMISSION SIDE OIL SCREEN Whenever powerplant is removed and transmission is drained, remove, clean, and inspect the side oil screen.

1 December 1983 (Supersedes M60A1 Portions of LO 9-2350-215-12, 22 August 1977)

TANK, COMBAT, FULL TRACKED, 105-MM, M60A1 (2350-00-756-8497 AND 2350-01-058-9487 AOS)

Reference: TM 9-2350-215-10 Series, TM 9-2350-215-20-1 Series. and TM 9-2350-215-20-2 Series



		EXPECTED TEMPERATURES*			
LUBRICANT/COMPONENTS	Refill	Above +32°F	+40°F to10°F	0°F to65°F	
	Capacity	(Above 0°C)	(+4°C to23°C)	(17°C to53°C)	
GAA: Grease, Automotive and Artillery MIL-G-10924					
Track Support Roller	As				
Bearing	Required				
-					
Compensating Idler Arm	As				
Housing	Required				
Componenting Idler Wheel	۸۵				
Compensating Idler Wheel	As				
Bearings	Required	+	ALL TEMPERATUR	T.C.	
Compensating Idler Arm	As		ALL TEWPERATUR	ES	
Link	Required				
	As	+			
Roadwheel Bearings	Required				
	Ås	-			
Roadwheel Arm Bearings	Required	<u>l</u>			
	As	T			
Towing Pintle	Required				

*For Arctic Operation refer to FM 9-207

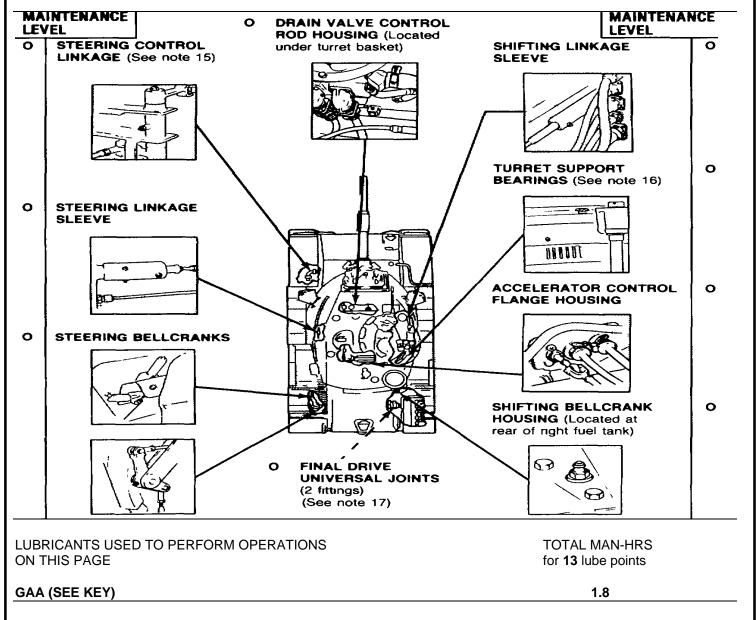
NOTES

- 13. COMPENSATING IDLER WHEEL BEARINGS AND ROADWHEEL BEARINGS. Clean grease from seal assembly. Clean lubricant pressure relief fitting using a clean, lint-free, dry cloth. Check lubricating pressure relief fittings for proper operation. The plunger type fittings are checked by pulling up on the plunger. The plunger should move freely. The ball-type fittings should be checked to insure that the two relief ports are open. If plunger does not move freely, or relief ports are not open (ball type), remove and thoroughly clean in PD-680 Type II, dry cleaning solvent. Dry with compressed air or lint-free cloth. Verify that plunger or ball moves freely before installing fitting. Apply lubricant until it appears at lubricant pressure relief fitting. No lubricant should appear at seal assembly. Wipe excess lubricant from relief fitting.
- 14. TOW CABLES. Clean cables with dry cleaning solvent PD-680, Type II, and coat with corrosion preventive compound MIL-C-16173 (Grade 1).

1 December 1983 (Supersedes M60A1 Portions of LO 9-2350-215-12, 22 August 1977)

TANK, COMBAT, FULL TRACKED, 105-MM, M60A1 (2350-00-756-8497 AND 2350-01-058-9487 AOS)

Reference: TM 9-2350-215-10 Series, TM 9-2350-215-20-1 Series, and TM 9-2350-215-20-2 Series



QUARTERLY LUBRICATION/750 MILES - Continued

		EXPECTED TEMPERATURES*		
LUBRICANT/COMPONENTS	Refill	Above +32°F	+40°F to10°F	0°F to65°F
	Capacity	(Above 0°C)	(+4°C to23°C)	(17°C to 53°C)
GAA: Grease, Automotive and Artillery MIL-G-10924				
	As			
Steering Control Linkage	Required			
	Ås			
Steering Linkage Sleeve	Required			
	As	•		
Steering Bellcranks	Required			
		Ī	ALL TEMPERATUR	ES
Drain Valve Control Rod	As			
Housing	Required			
	As	T		
Shifting Linkage Sleeve	Required	+		
	As			
Turret Support Bearings	Required	1		
Accelerator Control Flange	As			
Housing	Required			
-	As	†		
Shifting Bellcrank Housing	Required	1		
Final Drive Universal	As			
Joints	Required			

*For Arctic Operation refer to FM 9-207

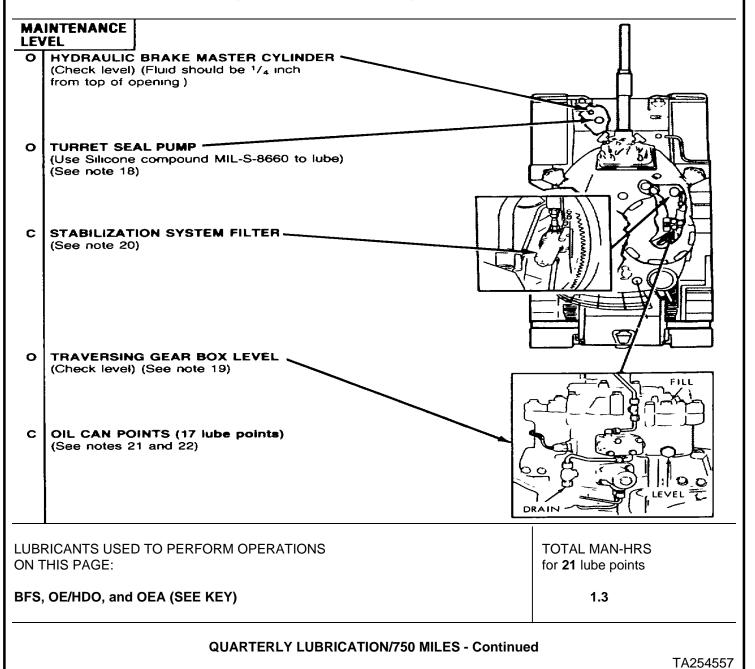
NOTES:

- 15. STEERING CONTROL LINKAGE. Lubricate when fire extinguisher bottles are removed for quarterly preventive maintenance checks and services.
- 16. TURRET SUPPORT BEARINGS. Remove plug and insert lubrication fitting. Lubricate with grease. Manually rotate turret a minimum of one revolution while lubricating to insure even lubrication of all support bearings. Remove lubrication fitting and install plug.
- 17 FINAL DRIVE UNIVERSAL JOINTS. If lubrication fitting holes are plugged with protective plugs, remove and discard plugs. Install lubrication fittings but do not remove fittings after lubricating.

1 December 1983 (Supersedes M60A1 Portions of LO 9-2350-21512, 22 August 1977)

TANK, COMBAT, FULL TRACKED, 105-MM, M60A1 (2350-00-756-8497 AND 2350-01-058-9487 AOS)

Reference TM 9-2350-215-10 Series, TM 9-2350-215-20-1 Series, and TM 9-2350-215-20-2 Series



		EX	PECTED TEMPERAT	URES*
LUBRICANT/COMPONENTS	Refill	Above +32°F	+40°F to10°F	0°F to65°F
	Capacity	(Above 0°C)	(+4°C to23°C)	(17°C to53°C)
BFS: Brake Fluid, Silicone				
Automotive, All Weather				
Operational and Preservative				
MIL-B-46176			ALL TEMPERATUR	ES
Hydraulic Brake Master	As			
Cylinder	Required		4	
OE/HDO: Oil, ICE, Tactical				
MIL-L-2104				
OEA: Oil, Engine Arctic,				
MIL-L-46167				
	As			
Oil Can Points	Required	OE/HDO-30	OE/HDO-10	OEA
	As			
Traversing Gear Box	Required	OE/HDO-10	OE-HDO-10	OEA
Silicone Compound MIL-S-8660	As			
Turret Seal Pump	Required	ALL TEMPERATURES		

*For Arctic Operation refer to FM 9-207

NOTES

- 18. TURRET SEAL PUMP. Remove pump plunger If necessary, clean by rubbing lightly with fine emery cloth and wipe with dry cleaning solvent, PD-680, Type II Lubricate cylinder, plunger, and rod lightly with silicone compound Assemble pump.
- 19. TRAVERSING GEARBOX to check level, remove level plug. Oil level should be at bottom of plug hole. To fill or add oil, remove fill plug Clean breather on fill plug.
- 20. STABILIZATION SYSTEM FILTER Quarterly and at times of removal and replacement of any hydraulic system line or component, remove and replace filter.

CAUTION

Use care when lubricating periscope and night viewer covers to prevent oil from being applied to optical surfaces.

NOTE

Lubricate oil can points that become accessible while performing other lubrication tasks.

21. OIL CAN POINTS Quarterly lubricate the following items

Headlight removal nut

Fender stowage box hatches and hinge

Interphone box hing

Gun travel lock hinges and bol

Towing hooks (hinge pin

Brake linkag

Transmission support guide rail

and rollers

Penscope cover hinges an

penscope hatch mounts

Driver's escape hatch (clean an

coat pins, plungers and all unpainted

surfaces)

22. Do not lubricate the following Items

Machinegun solenoi

Starter solenoi

Air cleaner blower moto

Hydraulic power pack electri

motor

Heater moto

Ventilator blower moto

Grille door hinge Control rod devise

Ammunition rack retain rs

Ammunition box latche

Cupola machinegun access door lock Driver's gunner's and commander'

seat moving parts

Hatch locks and hinge

Manual elevating and traversin

handles and universal joints

Gas particulate fan moto

Track

Tachometer drive adapte

Electronic firing circuit contact

Breech block firing pi

Any item NOT pointed out In thi

lubrication order

LUBRICATION ORDER LO 9-2350-215-12 1 December 1983 (Supersedes M60A1 Portions of LO 9-2350-215-12, 22 August 1977) TANK, COMBAT, FULL TRACKED, 105-MM, M60A1 (2350-00-756-8497 AND 2350-01-058-9487 AOS) Reference. TM 9-2350-215-10 Series, TM 9-2350-215-20-1 Series, and TM 9-2350-215-20-2 Series **MAINTENANCE LEVEL** CRADLE TRUNNION **BEARINGS** (Lubricate until grease appears, 2 points) 0 **ELEVATING SCREW** JACK (Clean and coat) 0 **AZIMUTH INTERLOCK** (Lubricate cam, rollers, spring and pin, lightly) CUPOLA 0 AZIMUTH LOCK (Clean lock and coat lightly) 0 **CUPOLA RING GEAR** (Coat gear teeth lightly 360 degrees) CAUTION: Do not lubricate plastic ball bearings

LUBRICANT USED TO PERFORM OPERATIONS ON THIS PAGE

TOTAL MAN-HRS for 6 lube points

GAA, and CLP (SEE KEY) 1.2

QUARTERLY LUBRICATION/750 MILES

		EXPECTED TEMPERATURES*		
LUBRICANT/COMPONENTS	Refill	Above +32°F	+40°F to10°F	0°F to65°F
	Capacity	(Above 0°C)	(+4°C to23°C)	(17°C to 53°C)
GAA: Grease, Automotive and Artillery MIL-G-10924				
	As			
Cupola Azimuth Lock	Required			
	Ås			
Cupola Ring Gear	Required			
	As	-	ALL TEMPERATUR	ES
Cradle Trunnion Bearings	Required			
	As			
Elevating Screw Jack	Required			
CLP: Cleaner, Lubricant				
Preservative, MIL-L-63460				
	As			
Cupola Azimuth Interlock	Required			

*For Arctic Operation refer to FM 9-207

NOTE

Quarterly lubrication of main gun bore, bore evacuator, and machine guns may be required. (See notes 6, 7, and 8, card 6)

NOTE

If operating in 0°F (-17°C) to -65°F (-53°C) temperatures without Army Oil Analysis, quarterly/750 mile transmission and oil changes are required (See note 9, card 8).

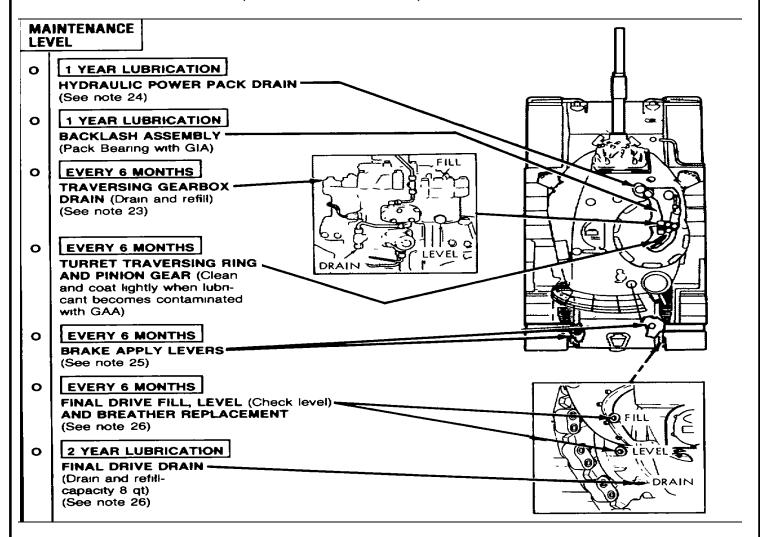
NOTE

Whenever powerplant is removed, remove, clean and inspect transmission side oil screen. (See note 12, card 8.)

1 December 1983 (Supersedes M60A1 Portions of LO 9-2350-215-12, 22 August 1977)

TANK, COMBAT, FULL TRACKED, 105-MM, M60A1 (2350-00-756-8497 AND 2350-01-058-9487 AOS)

Reference TM 9-2350-215-10 Series, TM 9-2350-215-20-1 Series, and TM 9-2350-215-20-2 Series



LUBRICANTS USED TO PERFORM OPERATIONS ON THIS PAGE:

TOTAL MAN-HRS for 8 lube points

For 6 month checks use OE/HDO, OEA, GAA, and CLP

6 MONTH - 1.8 1 YEAR - 0.5

For 1 year use FRH, and GIA For 2 year check use OE/HDO, and OEA

2 YEAR - 0.4

6 MONTH, 1 YEAR AND 2 YEAR LUBRICATION

		E	TURES*	
LUBRICANT/COMPONENTS	Refill	Above +32°F	+40°F to10°F	0°F to65°F
	Capacity	(Above 0°C)	(+4°C to23°C)	(17°C to53°C)
OE/HDO: Oil, ICE, Tactical				
MIL-L-2104				OEA
OEA: Oil, Engine Arctic		OE/H	HDO-50	See Note
MIL-L-461070				26b
Final Drive	8 qts.			
Traversing Gear Box	2 qts.	OE/HDO-10	OE/HDO-10	OEA
CLP: Cleaner, Lubricant,				
Preservative MIL-L-63460				
	As			
Brake Apply Levers	Required			
GAA: Grease, Automotive and				
Artillery, MIL-G-10924				
Turret Traversing Ring and	As			
Pinion	Required		ALL TEMPERATUR	RES
FRH: Hydraulic Fluid, Rust				
Inhibited, Fire Resistant.				
Synthetic Hydrocarbon Base,				
MIL-H-46170, Type I				
	As			
Hydraulic Power Pack	Required			
GIA: Grease, Aircraft, and				
Instrument, MIL-G-23827				
	As			
Backlash Assembly	Required			

*For Arctic Operation refer to FM 9-207

NOTES:

- 23. TRAVERSING GEARBOX. To drain, remove cap from tee. Disconnect line and remove tee. Clean screen (part of tee). To check level, remove level plug. Oil level should be at bottom of plug hole. To fill or add oil, remove fill plug. Clean breather on fill plug.
- 24. HYDRAULIC POWER PACK. Drain annually. To drain, reduce hydraulic system pressure to zero and open petcock on reservoir. Replace stabilization system filter when draining annually. Fill with FRH only. (See note 4. card 4.)
- 25. BRAKE APPLY LEVERS. Semiannually when powerplant Is removed for scheduled maintenance, remove brake apply lever covers, clean and coat all moving parts with CLP. Install cover and gasket.

26. FINAL DRIVES

- a. Check oil level semiannually. Check more frequently if there is evidence of leakage. Check before operating vehicle when oil is cold. To check oil level, remove oil level plug If final drive has been overfilled, allow excess oil to drain into a suitable container It is normal for a small quantity of oil (approximately two or three tablespoons) trapped behind plug to run out as the plug is removed. Make sure oil level is up to lower edge of plug hole. Carefully Insert finger Into level plug hole and feel for oil. Check oil for metal content If oil level is low. Install level plug, remove fill plug, add oil. Allow oil to settle. Recheck oil level. Repeat procedure, as necessary, until proper level is reached. DO NOT OVERFILL. Clean and install fill and level plugs. Drain every two years, biennial. To drain, remove drain plug from bottom of housing. Drain only after operation while oil is warm. After draining, clean and install drain plug. Refill to proper level as outlined above. Whenever oil is checked or changed, check magnetic plug for metal shavings.
- b. When temperatures are constantly below + 10°F (- 12°F) for 7 or more days, change oil to OEA, MIL-L-46167.
- c. Remove and Install Breather (if equipped) at time of semiannual powerplant removal.

NOTE

If Army Oil Analysis is not available, engine and transmission oil changes are required (See note 9, card 8.)

1 December 1983 (Supersedes M60A1 Portions of LO 9-2350-215-12, 22 August 1977)

TANK, COMBAT, FULL TRACKED, 105-MM, M60A1 (2350-00-756-8497 AND 2350-01-058-9487 AOS)

Reference TM 9-2350-215-10 Series, TM 9-2350-215-20-1 Series, and TM 9-2350-215-20-2 Series

Copy of this Lubrication Order will remain with the vehicle at all times Instructions contained herein are mandatory

By Order of the Secretary of the Army Official Robert M. Joyce Major General, United States Army The Adjutant General JOHN A. WICKHAM, JR General, United States Army Chief of Staff

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