

DEFINITIONS OF SEVERE CONDITIONS (Except for U.S.A. and CANADA)

1. Required maintenance under the following conditions

- For vehicles used under any of the following conditions, the maintenance items listed below should be performed in addition to the scheduled maintenance.

A: Road conditions

- Operating on rough or muddy roads, or roads with melted snow or waterlogged roads.
- Operating on dusty roads. (Roads in areas where their pavement rate is low, or a cloud of dust often arises and the air is dry.)
- Operating on road which has road salt applied.
- Operating frequently on 2,000 m (6,562 ft.) above sea. (Vehicle with high altitude compensator or EFI diesel engine.)
- Operating frequently on 700 m (2,297 ft.) above sea. (Vehicle without high altitude compensator or EFI diesel engine.)

B: Driving conditions

- Heavily loaded vehicle. (Example : Towing a trailer, using a camper, using a car top carrier, etc.)
- Repeated short trips of less than 8 km (5 miles) and outside temperatures remain below freezing. (Engine temperature will not reach to normal temperature.)
- Repeated short trips of less than 15 km (9 miles). (Engine temperature will not reach to normal temperature.)
- Extensive idling and/or low speed driving for a long distance such as police, professional/private use like taxi or door-to-door delivery use.
- Continuous high speed driving (80 % or more of maximum vehicle speed) for over 2 hours.
- Daily (30 min. or more) off-road operation of the vehicles at high engine speed and low vehicle speed, such as heavy cargo transportation, off-roads trailer towing.

Conditions										Items			
A: Road conditions				B: Driving conditions									
1.	2.	3.	4.	1.	2.	3.	4.	5.	6.				
	●			●		●	●			Engine oil	Gasoline engine	For 2TR-FBE, 1NR-FBE, 2NR-FBE, 1ZR-FBE, or 2ZR-FBE engines only	
	●			●	●		●				Others		
	●		●	●	●		●				Diesel engine		
	●			●	●		●				LPG & CNG engine		
	●			●		●	●			Engine oil filter	For 2TR-FBE, 1NR-FBE, 2NR-FBE, 1ZR-FBE, or 2ZR-FBE engines only		
	●			●	●		●				Others		
	●									Air cleaner filter			
							●			HEV battery cooling intake filter			
							●			CNG tank			
●							●			Hydrogen supply system (For FC SYSTEM only)			
●							●			Hydrogen tank with valve (For FC SYSTEM only)			
●							●			Hydrogen tank band (For FC SYSTEM only)			
●	●			●			●			Brake linings and drums (Including parking brake linings and drums)			
●	●			●			●			Brake pads and discs			
●										Brake pipes and hoses (Except for EUROPE)			
●	●			●			●			Brake master cylinder, wheel cylinder cup and rubber parts			
●										Suspension ball joints and dust covers			
									●*2	Clutch fluid			
●										Clutch fork grease			
●	●	●								Clutch switch			
●	●	●								Stop light switch			
●										Drive shaft boots			
●										Tighten bolts or nuts for drive shaft (flange-type)			
				●				●		Manual transmission oil			
				●			●	●		Automatic transmission fluid	For brand-new, model changed, or minor changed non-hybrid electric vehicles and non-battery electric vehicle, that have been produced since January 2015, and also for T24A-FTS(HEV) model		
				●				●			Others		
●*1	●*1			●				●		Transfer oil			
				●				●		Transaxle fluid (e-Transaxle fluid)			
				●				●		Front differential oil	Integrated with transmission	M/T model	
				●			●	●				A/T model	For brand-new, model changed, or minor changed non-hybrid electric vehicles and non-battery electric vehicle, that have been produced since January 2015, and also for T24A-FTS(HEV) model
				●				●			Others		
				●				●				Separated from transmission	
				●				●		Rear differential oil			
●	●	●		●						Propeller shaft grease			
●	●	●		●						Tighten bolt for propeller shaft			
●*3	●*3	●*3		●*3						Propeller shaft boots			
●										Steering wheel, linkage and steering gear box			
●				●						Wheel bearing grease			
●										Steering knuckle, drag link, kingpin, center arm and steering linkage grease (Except for AUSTRALIA and GENERAL)			
●				●						Front and rear suspension			
●				●						Bolts and nuts on chassis and body			
●	●			●						Tires and inflation pressure (For Europe only)			
	●									Air conditioner filter			

*1: For FR base 4WD models.

*2: For Land Cruiser 150 only.

*3: For Land Cruiser 300, Land Cruiser Prado, GX550, GX550h, LX600, and LX500d only.