

Liebherr Oil Sampling Guidelines

Components					Sample Points	Hour Interval	Preferred Sampling Location	Comments
	Crawler Loaders/Dozers	Wheel Loaders	Crawler Excavators	Wheeled Excavators				
Engine	X ¹	X ¹	X ¹	X ¹	1	250 hrs	Dipstick tube	(1) Reduce interval to 125 hrs if using diesel fuel with more than 0.5% Sulfur (by weight) or ambient temperature is less than 15 degrees (F)
Hydraulic tank	X	X	X	X	1	500 hrs	Reservoir cap	NOTE: 250 hours for high dust environments NOTE: Do not sample through filter openings
Splitter box	X ²	X ²	X	X	1	1000 hrs	Dipstick tube	(2) First 500 hrs, then every 1000 hrs
Swing gear			X	X	1	500 hrs	Drain port	
Transmission		X ²		X ³	1	1000 hrs	Oil fill port	(2) First 500 hrs, then every 1000 hrs (3) Excavator Models A900 to A934 Only
Front/Rear Differential		X ²		X ²	2	1000 hrs	Oil fill port	(2) First 500 hrs, then every 1000 hrs
Final drives	X ²		X ²		2	1000 hrs	Oil fill port	(2) First 500 hrs, then every 1000 hrs
Wheel Hubs				X ^{2,4}	2	1000 hrs	Oil fill port	(2) First 500 hrs, then every 1000 hrs (4) Wheel Hubs on Front (Steer Axle) Only
Samplings first 1000 hrs.	12	14	13	18				
Samplings every 1000 hrs thereafter	9	10	11	14				

Crawler Loaders/Dozers

LR Series

Wheel Loaders

L Series

Crawler Excavators

R series & LHC Series

Wheeled Excavators

A Series & LHM Series

- General Notes:**
- Increase fluid sampling intervals for environments with high airborne particulate (dust) content.
 - Standard Warranty and Extended Warranty is contingent upon proper maintenance and oil sampling

- Sampling Tips:**
- Do not let the sample bottle become dirty or contaminated
 - Ensure equipment to be sampled is at operating temperature
 - Thoroughly clean around the sampling area before taking the sample
 - Discharge a few ounces of liquid into a waste container before taking actual sample.
 - DO NOT sample from the bottom of the component pan or reservoir or in the vicinity of a filter
 - Always sample cleanest systems first (Hydraulic>Transmission>Engine>Axles)
 - If using disposable sample tubing, use a new piece of tubing for each component being sampled
 - Replace the cap on the sample bottle and tighten it immediately after taking the sample
 - Place the unit ID and proper component name (as above) on the bottle before beginning the sample process