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Definition. Mixed lubrication is an operating state (regime) of a lubricated contact in which surface roughness ( Surface Roughness) significantly affects the performance of the contact. It may occur

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with conformal contact  
lubrication, such as journal  
bearing lubrication.

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As the potential for  
asperity contact is reduced

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and film thickness is increased, the coefficient of friction drops dramatically to the condition known as mixed lubrication. Some metal-to-metal asperity loading is still occurring combined

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with loading (lift) on the lubricant. This is an intermediary condition between boundary and hydrodynamic/elastohydrodynamic lubrication regimes, the gray area between them.

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In hydrodynamic lubrication the lube oil film thickness is greater than outlet, pressure at the inlet increases quickly, remains

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fairly steady having a maximum value a little to the outside of the bearing center line, and then decreases quickly to zero at the outlet. Application of hydrodynamic lubrication. Delicate instruments.

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previously discussed, these are known as boundary or mixed lubrication conditions. Journal bearings



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can be seen within products such as a gear pump. The shaft serves as the journal and its own rotation pressurizes the fluid between itself and the bearing face [11]. Higher speeds create higher

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pressure, therefore a minimum speed is required for proper operation. An example . Boundary Region  
Mixed Region Hydrodynamic  
Region

*Tribology of Journal*

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*Bearings Subjected to  
Boundary and ...*

Summary. Many machine components like gears, cams, heavily loaded sliding bearings, etc., operate under mixed lubrication regime, which occurs when

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the applied load is shared between the full-film lubrication and asperity contact regions. In the asperity contact regions, only a small fraction of the total area supports the major fraction of load, and

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as a result very high compressive stresses are induced at the contacting asperities.

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A high  $\lambda$  value ( $\lambda > 3$ )

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indicates the hydrodynamic lubrication where no metal-to-metal asperity contact happens. Generally, the smooth surface approximation in the oil film thickness prediction is valid when  $\lambda$  is large and when there is

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Hydrodynamic Bearings. Mixed lubrication occurs when  $\lambda = 1 \sim 3$  (most authors believe it takes place at about  $\lambda = 3$ )

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Bearing Parameter

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is often referred to as

stable lubrication. If the

lubrication temperature

increases, the viscosity



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drops. This results in a lower coefficient of friction, that causes the lubrication temperature to drop. => Self Correcting. Mixed-film lubrication is unstable - an increase in lubrication temperature

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causes further increases in  
lubrication temperature.

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lubrication is a regime in  
which two or more  
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functioning spontaneously  
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Mixed lubrication is a regime in which two or more lubrication mechanisms are

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functioning spontaneously.  
There may be frequent solid contact, but some portion of the bearing surface remains supported by a partial hydrodynamic fluid film.

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