

What is Insufficient

Lubrication?

INSUFFICIENT LUBRICATION

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Poor oil filter maintenance Insufficient oil in the sump Incorrect oil inlet gasket used leading to restrictio Build-up (coking) / carbon deposits in the oil feed Applying silicone to the oil inlet gasket causing bl Sludge or coke build up in bearing housing from A damaged, blocked or low-quality oil filter Failure to prime the turbo with oil before initial run Damaged/Bent oil feed pipe Damaged or worn oil pump	d pipe llockages hot shutdowns
Incorrect grade of oil is used	
 Material transfer to the thrust parts and the journal Discolouration to the thrust parts and the journal Excessive wear to the thrust pads of the thrust be Excessive wear to the journal bearings 	bearing diameter of the shaft and wheel
	Excessive wear to thrust bearing
	Material transfer from journal bearing Image: Contrast of the state of

If there is Insufficient Lubrication within the turbocharger the consequences can be severe. This is one of the most

common reasons for failure, a lack of oil in any of the lubricated areas can cause premature failure.

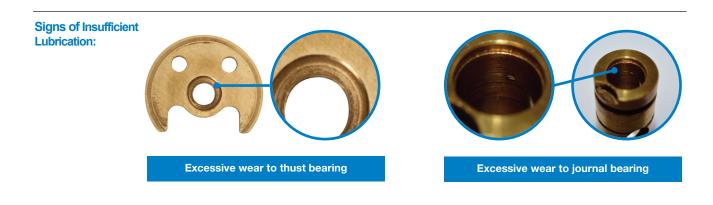
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Preventing turbo failure caused by Insufficient Lubrication:

- Oil supply is critical to the turbo, please ensure the oil flow is correct
- Always remember to prime the replacement turbocharger with oil before fitting
- Do not use silicone on oil gaskets as it can easily become detached and block oil passages
- Clean or replace oil inlet pipes to remove carbon deposits or sludge that could restrict oil flow to the bearing systems
- Use fresh oil and new oil filters (which have been recommended by the engine manufacturer) when fitting a replacement turbocharger
- Allow time for the engine to warm up at the start of each journey and cool down at the end



TECH TIP - If the original cause of failure is not identified it is likely the same type of failure will occur on the remanufactured turbo. A Insufficient Lubrication can result in catastrophic damage to the bearing systems which can occur within seconds of the turbocharger commencing operation.

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