



MECHANICAL

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| Issue No. 02 | Rev. No: 00 | Effective Date: 01.11.2019 | SOP/MEC/179 |
| Issued By: M.R | | Approved By: HOD-Mechanical | |
| SOP for External Oil filtration in Main gearbox | | | |

Scope: External Oil filtration in Main gearbox

Responsibility: Section Engineer

Accountability: Mechanical-Section In-charge

PPE:

1. Safety helmet,
2. Safety shoe,
3. Nose Mask,
4. Hand gloves
5. Safety goggles

TOOLS:

1. Box spanner set.
2. Ring spanner set.
3. Pipe wrench
4. Cotton waste.
5. Filters.

Hazard Analysis:

Risks associated : Mitigating Measures

Body Injury : Use proper tools and tackles

SOP for External Oil filtration in Main gearbox

1. Take Loto for Main gearbox Electrical energy.
2. Remove the drain valve dummy plug with the connection of hoses which is connected to the oil filtration unit
3. Clean the oil filtration unit and filters.
4. Pump out the oil in the gear box.



DALMIA CEMENT (B) LIMITED – ARIYALUR



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5. Ensure the gear box oil coming from outlet port.
6. Run the filtration unit upto the total oil is getting filtered.
7. Remove the oil hoses and clean it.
8. Remove the oil filters and clean it.
9. Ensure the inlet and outlet pipes are emptied..
10. Close the drain valve and provide dummy plug.
11. Ensure to check the oil leakage at hose connections and gear box doors. If any leakage arrest immediately.
12. Check the oil level up to required level.
13. Stop the pump and remove the pump connections.
14. Clear the work permit for pump.
15. Clear all the LOTO permits and give clearance to start the drive.

Emergency / Emergency Shut OFF:

1. If any injury takes place, provide First aid and inform to the Safety department or Call Emergency number 3108/9865152222

Records/Annexure:

1. Refer Line clearance certificates.
2. JSA as enclosed below



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|---|-------------------|----------------|--|-----------------------|--|
| 2 | Emptying the oil | Injury | Ensure suitable pump pressure and hose connections | Fall /Slippage of men | Use tested hose pipe with proper fitting |
| 3 | Opening the hoses | Hand injury | Use proper tools. | Slippage of tools | Visual inspection before use |
| 4 | Starting the pump | Electric shock | Use certified filtration unit. | Electric shock | Visual inspection before use |