The 4 Reasons Why We Accept Lubrication Failure "Death by Lubrication"



By Ricky Smith CMRP, CMRT

Why do professional maintenance management teams accept lubrication problems which could account for a large majority of equipment failures in their plant? Recent studies have shown that over 80% of maintenance managers' say lubrication is a major problem. Failures are more frequent than most maintenance managers even know.

So what are the reasons for Lubrication Failure?

1. Improper lubrication practices are at the heart of many equipment reliability issues.

Studies have shown that 70-85% of equipment failures are self-induced, meaning that

maintenance practices and processes are directly responsible for the failures.

In a recent survey companies responded saying poor lubrication practices represent about

40% of maintenance-related self-induced failures.

A problem with these failures many times begins with the standard Original

Equipment Manufacturers (OEM's) lubrication recommendations.

- Lubrication recommendations are time based

Example: Changing oil in a hydraulic system, changing oil in a hydraulic system should be a rare occurrence.

- The amount of lubrication introduced into a bearing is not defined by the OEM Example: Conveyor Bearings – Grease all over the place (more grease the better)

Solution: Utilize formal processes to determine lubrication requirements for equipment such as FRACAS, RCM, FMEA, etc. It is all about preventing a Failure Mode from occurring.

2. Root Cause Analysis is not utilized effectively in most companies. If so they would findlubrication to be a big problem and resolve them.

Solution: Make RCA a key part of your maintenance process (Bad actors)

3. I have found consistently that full time lubrication specialist and operators induce failures into their equipment.

Recent studies support my claim. In fact, one study found that over 45% of all personnel who perform lubrication have not been formally trained.

Example 1: (True Story) Lubricator lubricating without grease in grease gun. Reason for the problem, No management oversight

Example 2: Lubricator introducing hydraulic fluid into a reservoir with a dirty funnel and open container. A closed hydraulic system is a requirement, along with filtering hydraulic fluid before introducing it into a reservoir.

Solution: Develop Repeatable, Effective Lube Procedures and train your technicians and operators using these procedures.

4. Maintenance and production personnel do not perform lubrication ontheir equipment to standard and have only been given on the job training by the previous person who was in that position.

Solution:

- 1. Develop Effective, Repeatable Lube Procedures and then ensure people follow them.
- 2. Formally train all personnel who perform lubrication practices to equipment
- 3. Make lubrication procedures mandatory
- 4. Have a percentage of personnel in maintenance and operations certified in Lubrication.

WO # 12033 Asse		et # 12332 - Line 1				Condition (As Found): (Required)		
Job Description:							Leaks coming from #1 Gearbox	
Lubricate Bearings								
Frequency: Monthly						Condition (As Left): (Required)		
Estimated Craft Hours: 1 x 1.0 Estimated Production Downtime: 0							Clean up oil, notified production leader to keep area clean of oil	
Originator: Bill Hill Origi				ate: 10	1/12/202			
Owner:	Maintenance I	Nent Ve	reion #	1	1/12/201			
Previous Version(s) Modifications:					Comment(s): (Optional)			
Approval: RAS Vers			sion #: 1.0				Name	
							reene	
Cautions: Failure to follow PM Requirements could result in equipment failure								
Personal Protective Equipment Required: Gloves, hearing protection								
Part # (Stores ID) Part Description		Quantity	Quantity Quantity Description					
0-1090	aviation aviatination aviation aviation aviation aviation aviation aviation		Each					
Concernables Nandad								
Lint Free Towels								
Special Tools Required:								
Single Pump Grease Gun - Type 237 (Synthetic Grease Gun)								
Mobile/Research Equipments						Craft's Feedback on Procedures: (Optional)		
None								
Required Departmental Coordination:							All Good	
Production Lead will be notified before execution of Lubrication								
Craft # of Craft Initial					Craft			
10	tel Constanti d'anni interna si ità sanat			Crafts	Hours	Steps	Craft's Signature(s): (Required)	
Ask Operator it any issues with asset Target asset for any leaks as abaarmalities			M	1 .3	KL	A. A. c		
3 Clean arease fitting with list free rag				1	1 1 1	KL VI	Jim Jimbo	
4 Insert arease into 4 "Zerk fittings" (2 Pumer ner fitting)			-		1	KI I		
5 Notify Production work is complete			M	1	1	KL	Date:	
6 Complete Work Order			M	1	1	KL		
Total Hours			-	-	1	KL	10/11/2019	
Notity Production work is complete Complete Work Order Total Hours				1	.1	KL KL KL	Date: 10/11/2019	

"Repeatable Procedure Example"

Conclusion: Stop your maintenance and operations staff from doing the wrong things in lubrication. This requires procedures, training, and discipline and only then the results will appear. If you have questions or comments send them torsmith@worldclassmaintenance.org

Check out my new website at for more information att: www.worldclassmaintenance.org

