

# ON-ROAD / OFF-ROAD LUBRICATION SYSTEMS



AUTHORIZED DISTRIBUTOR:



- Spring Pins
- Steering Linkages
- King Pins
- Slack Adjusters
- Brake Cams
- Tie Rods



• Cross Shafts

- Fifth Wheel Plate
- Fifth Wheel Plate Pivots

- Slack Adjusters
- Brake Cams



**PROTECT YOUR INVESTMENT.**  
WE CAN SOLVE YOUR PROBLEMS.

- ENGINEERING
- SERVICE
- INSTALLATION
- CONSULTATION
- TROUBLESHOOTING

**perma**

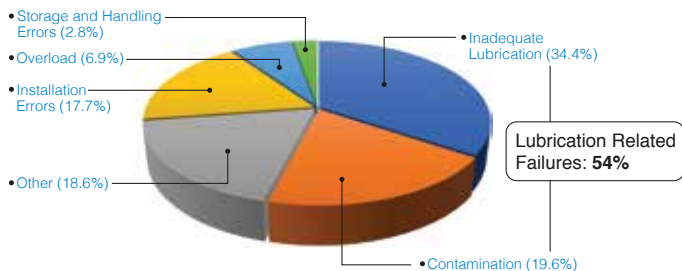


**GRACO**

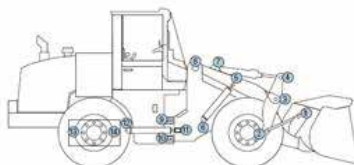


**Why Bearings Fail...**

In a study conducted by the bearing manufacturer SKF, over 50% of bearing failures are the result of improper lubrication.



1	Upper Bucket Pin	8	Boom Pivot
2	Bucket Link	9	Upper Articulating Pin
3	Ball Crank Pin	10	Lower Articulating Pin
4	Bucket Cylinder Rod End	11	Steering Cylinder Rod End
5	Left Cylinder Rod End	12	Steering Cylinder Cap End
6	Left Cap End	13	Rear Axle Cradle
7	Bucket Cylinder Cap End	14	Rear Axle Pin Bearing



**✓ENGINEERING AND DESIGN    ✓SERVICE    ✓TROUBLESHOOTING    ✓CONSULTATION    ✓INSTALLATION**

- Site and fleet audits and inspections – Review utilization requirements for uptime reliability, safety, and annual maintenance costs. Focus on finding applications and opportunities to improve utilization through reliability-based technologies and services
- Safety – Introduce specific safety based technologies and methods to all team members tasked with improving asset and operator safety, damage, and liability
- Environmental – Review goals, methods, and technologies that serve to create a more environmentally responsible site including inventory tracking, fluid containment, dispensing methods, filling technologies and procedures, and contamination control
- Product and method training – Customer location-based training on safety, lubricants, lubrication equipment, methodology, best practices, contamination, remediation, and storage/environmental

- Warranty services – provide complete warranty on all products and services to ensure the highest quality received and utilized by the customer
- On-site service and support – Provide necessary on-site support to repair, rebuild, and change our products to maintain utilization and reliability
- Turn-key Installations – Compliment our reliability technologies with expert installations to ensure optimum functionality and warranty support
- Annual service agreements – To provide, on a predetermined basis, a scheduled set of times and intervals for inspecting and reviewing systems, components, inventories, and training needs