FROM PROBLEM SOLVING TO HIGHER PRODUCTIVITY

SHELL LUBE SERVICE EXPERTS MAKE IT POSSIBLE

SHELL LUBRICANTS
TOGETHER ANYTHING IS POSSIBLE

IMPROVEMENT PROJECT EXAMPLES

DIFFICULT DIAGNOSIS AVOIDS POTENTIAL FAILURE

Challenge: At a Nevada Copper & Gold Mining Company, a cracked gear tooth was discovered during a routine inspection of the crowd bull gear on a Bucyrus 495 electric rope shovel.

Solution: Working with the Reliability Centered Maintenance team at the mining company, the Shell Lube Service Experts helped to provide a recommended plan to repair the crowd bull gear before a failure of the crowd gear box occurred and avoided unscheduled downtime.

Value: The savings related to avoiding downtime, component and labor costs are estimated as **US$898,600.**[3]

AVOIDING UNNECESSARY DOWNTIME

Challenge: KGHM Robinson's CAT 793 haul trucks never sit idle. Every hour that these trucks are down for maintenance has large opportunity costs.

Solution: KGHM and Shell's technical team worked together to extend both the transmission and hydraulic oil drains from 2000 hours to 4000 hours. This was done through an upgrade to Shell Spirax S6 CXME 10W-40 in both applications and careful oil analysis to assess transmission oil cleanliness and remaining oil life.

Value: The transmission oil drain extension for the twenty-one CAT 793 haul trucks saved KGHM **US$76,029** per year in downtime savings. The hydraulic oil drain extension for the CAT 793 haul trucks saved KGHM **US$55,743** per year in downtime savings.[3]

IN 24 YEARS OF OPERATION, OUR SHELL LUBE SERVICE EXPERTS HAVE NEVER HAD A LOST-TIME INCIDENT.

To find out more visit
http://www.whylubesmatter.com

[1]Potential impact calculated based on Shell Lubricants site surveys with mining customers.
[2]Based on savings delivered to Shell Lubricants mining customers from 2011 to 2016.
[3]Case study savings/benefits were reported by one customer. Actual savings/benefits will vary. More details available on request.

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COULD YOU BE UNDERESTIMATING THE **IMPACT OF LUBRICANTS**?

UP TO 30% SAVINGS ON TOTAL MAINTENANCE BUDGET HAVE BEEN IDENTIFIED IN SITE SURVEYS[1]

FROM 2011 TO 2016, MINING CUSTOMERS REPORTED VALUE OF **MORE THAN US$55 MILLION** RELATED TO OUR PRODUCTS AND SERVICES[2]

SHELL LUBE SERVICE EXPERTS

- INTEGRATE WITH YOUR MAINTENANCE TEAMS
- WORK ON MACHINES AND MILLS
- BRING MINING AND ENGINEERING EXPERTISE
- PROVIDE INSIGHT AND INNOVATIVE TECHNOLOGY FROM AROUND THE WORLD
- INSPECT USING STROBE-O-SCOPE, THERMAL IMAGING AND VIBRATION ANALYSIS
- AUDIT LUBRICATION SYSTEMS AND INJECTORS
- PERFORM INJECTOR SPECTRUM SLEEVE FITMENT
- OPTIMIZE GREASE ONTO FIXED AND MOBILE EQUIPMENT

WHY INCLUDE A SHELL LUBE SERVICE EXPERT IN YOUR TEAM

- Unplanned break downs are expensive
- Your business is unique
- New problems are difficult to solve
- Identifying issues before they impact operations requires expertise
- Helps reduce the total cost of ownership
- Helps improve your bottom line
- It will help support your short- and long-term lubricant goals

WITH YOU FOR THE LONG TERM

We have long-standing relationships with 11 of the top 12 mining companies.

We have provided Shell LubeExpert services to 10 of these companies over the last decade.

We launched the service over 20 years ago and still work with our first customer.