GEARBOX REPAIRS & UPGRADES

AKRON GEAR IS YOUR ONE-STOP SOURCE FOR ALL OF YOUR GEARBOX NEEDS.

Akron Gear & Engineering evaluates and repairs gearboxes of all makes and models. Included but not limited to parallel shaft, right angle, spiral bevel, multiple input/output, planetary and worm drives, Akron Gear & Engineering certifies each evaluation and repair with extensive test procedures.

EXAMPLES:

BEFORE & AFTER: HERRINGBONE

BEFORE & AFTER: HELICAL GEARS

BEFORE & AFTER: HELICAL GEARS

BEFORE & AFTER: WORM DRIVE
INVESTING IN TECHNOLOGY TRENDS

A universal, highly sophisticated, fully comprehensive 3D coordinate measuring device
- Mobile tester for gears including external, internal, spur, helical gears and worm wheels (max. gear diameter approx. 16 m/52 feet)
- No limitation in max. module, number of teeth, helix angle or face width
- Evaluation of profile, lead, pitch and runout data with reports
- Evaluation according to all gear standards and customized standards including DIN, ISO, AGMA 2000, AGMA 2015, JIS, free tolerances, etc.
- Suitable for measuring gears of quality class 5-6 according to DIN 3960/61 (similar to AGMA 2000 grade 10-12)

REAL Services sample testing includes quality control and cleanliness of Lubricants & Fluids for natural petroleum hydrocarbons, synthetic hydrocarbons, biodegradable nonhydrocarbon fluids, water glycols, emulsions and greases.

3-TIERED RATING SYSTEM

Sample Summary Reports: For quick reference of sample rating & recommendation.
Report Condition Ratings: For quick & easy reference of sample rating and previous sample.
Reference Sample: Data from a virgin reference sample is shown on report for comparison.
Recommendation(s): Clear concise action items and maintenance recommendations.
Report Format: Color and pictorial report format. All data is graphed & trended.

REAL Services’ testing and technology works with all types of fluids & lubricants:
- Petroleum Based Oils
- Synthetic Oils
- Biodegradable Oils
- Greases
- Non-Hydrocarbons
- Water Glycol Fluids
- Fire Retardant Fluids
- Emulsions

Qualitative Data:
- Particle Size, Shape & Composition
- Severe Sliding Wear
- Cutting/Plowing & Alignment Wear
- Rolling Contact & Bearing Wear
- Gear & Fatigue Wear
- Metallurgical Information
- Metal Oxides & Tempering over 23 other Parameters

Qualitative Data:
- NAS-1638 Particle Count
- ISO-4406 2 Digit Code
- ASTM-D-2983 Viscosity
- Water Contamination
- Equipment Particle Concentration
- Percentage Large Particles
- Various other parameters and testing are available.