



THE PERFORMANCE OIL THAT OUTPERFORMS

INNOVATIVE LUBRICANT TECHNOLOGY

Royal Purple was founded as an industrial lubricants company by John Williams, a pioneer in developing synthetic lubricants as far back as the 1950's. He continued pursuing his passion for lubrication by serving as a consultant to numerous companies after his retirement in the 1980's.

In 1986, an oil production company asked Williams to solve chronic bearing failures in their large compressors. He found that there was not a lubricant available that could handle the extreme demands of the equipment. He put his extensive lubrication background to work in developing a new lubrication technology.

Williams developed a new additive technology that fortified lubricants with unusually high film strength capable of protecting bearings under extreme loads. This unique technology also had exceptional oxidation stability for long oil life. It provided outstanding protection against rust and corrosion in wet and high temperature applications, cleaned equipment and prevented varnishing and sludge build-up.

The new lubricant easily solved the company's equipment problems. The plant manager said it was so superior to anything he had tried before that it should not look like other lubricants. Williams elected to make the lubricant purple. That lubricant became the cornerstone of Royal Purple's product line. Williams decided to name the company Royal Purple since historically the color purple was so expensive to produce that only royalty used the color.

Industrial customers initially tried Royal Purple on the most demanding and problem equipment. Customers could easily explain the rationale for switching lubricants because no other products performed as well. Over time, industrial customers were able to document the energy and maintenance cost savings to justify upgrading their entire plants to Royal Purple industrial lubricants.



PAPER & PULP

LUBRICATION GUIDE

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INDUSTRIAL LUBRICANTS

PAPER MACHINE LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE	NGLI GRADE	BASE OIL VISCOSITY
Oil Lube System	Para Syn PM, Synfilm GT	150, 220		
Grease Applications	Paper Mill Grease		1.5	244
Gear Applications	Synergy, Synfilm GT, Thermyl-Glyde	Various		

TURBINE LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE
Steam Turbines	Synfilm GT	32, 46, 68
Gas Turbines	Synfilm GT	32
Turbine Hydraulic Controls	Marine Hydraulic (zinc free), Syndraulic	32, 46, 68
Turbine Lift Gears	Synfilm GT, Thermyl-Glyde	Various

BEARING LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE	NGLI GRADE	BASE OIL VISCOSITY
API/ANSI Process Pumps	Synfilm, Synfilm GT	46, 68, 100		
General Purpose	Paper Mill Grease		1.5	244
General Purpose	EnduroSyn, Ultra Performance Grease		2	150
Fans	Ultra Performance Grease Synfilm GT	Various	2	150
Blowers	Synfilm GT	150, 220		
Electric Motors (Greased Bearings)	EnduroSyn, Ultra Performance Grease		2	150
Electric Motors (Oil Lubricated)	Synfilm, Synfilm GT	32, 46		
Low RPM/Heavily Loaded Bearings	Thermax 680		2	680
Calender Roll Bearings	Paper Mill Grease		1.5	244
NSF® H1 Food Grade Use	Poly-Guard FDA	32, 46		

CHAIN & OPEN GEAR LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE
Chains	MaxChain	
Open Gears	Open Gear Guard XP Thermyl-Tuff	Various

COUPLING LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	NGLI GRADE	BASE OIL VISCOSITY
Drive Couplings	Coupling Grease	1	2995

COMPRESSOR & VACUUM PUMP LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE
Vacuum Pumps	Synfilm GT	150, 220
Rotary Screw Compressors	Synfilm	46, 68
Reciprocating Compressors (Air)	Synfilm Recip	68, 100, 150
Centrifugal Compressors	Synfilm, Synfilm GT	46, 68, 100
NFS® H1 Food Grade Use	Poly-Guard FDA	Various

GEAR LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE
Gearboxes - Spur, Helical, Herringbone Gears	Synergy, Thermyl-Glyde	150, 220, 320
Worm Gearboxes	Synergy Worm Gear, Synfilm GT, Thermyl-Glyde Worm Gear	460, 680
Environmentally Acceptable Lube Areas/Gears	Biomax Gear Oil	150, 220, 320
Cooling Tower Gearboxes	Synfilm GT	220, 320
NSF® H1 Food Grade Use	Poly-Guard FDA	150, 220, 320

BARRIER FLUIDS MECHANICAL SEALS LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE
Dual Mechanical Seal, Nitrogen Purge & Sealed System	Barrier Fluid FDA	Various
Dual Mechanical Seal, No Nitrogen Purge & Open System	Barrier Fluid GT	Various

ROLLING STOCK LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE	NGLI GRADE	BASE OIL VISCOSITY
Wood Yard Dozers/Excavators	Royal Purple Motor Oil HD/CJ-4	SAE 15W-40		
Fleet Vehicles	Royal Purple Motor Oil HD/CJ-4	SAE 15W-40		
Fork Lifts/Loaders/Skid Steers	Royal Purple Motor Oil HD/CJ-4	SAE 15W-40		
Rolling Stock Hydraulic Systems	Syndraulic/SynTractor III			
Greased Bearing Applications	EnduroSyn, Ultra Performance Grease		2	150

SPECIALTY & GENERAL MAINTENANCE LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE
Equipment Rebuild & Pump Shop	Max-Tuff Assembly Lube	
General Purpose Lubricant/Penetrating Oil	Maxfilm	
Pumps, Blowers, Gear Boxes in Storage	VP-10 Preservative Oil	
Air Tools & Air Line Lubricant	Synfilm	32