LUBEALLOY
SPECIALISED LUBRICANTS

LA 152 PREMIUM AGRICULTURAL AND TRANSPORT PARA-SYN® BEARING GREASE

NLGI-2 LB/GC

DESCRIPTION

LA 152 is a unique formulated bearing grease for agricultural and transport applications. Formulated and blended from PARA-SYN® base oils, synergistic lithium complex and incorporating exclusive TRILINIUM®. LA 152 provides high mechanical shear resistance of the grease, excellent water washout and wear protection of metal surfaces.

The qualities of this grease ensure that it is an advanced EP lubricant available to agriculture and transport.

SUPERIOR LOAD CAPACITY

LA 152 maintains a robust synergistic film and adhesion with boundary surfaces to resists squeeze-out and thinning. Adhesive supplements and effective Extreme Pressure additives cater for unusually high speed and high load service conditions. LA 152 protects against wear on all moving parts from SHOCK LOADING to HIGH LOAD service areas of machinery.

CORROSION RESISTANT

LA 152 contains rust and corrosion inhibitors which effectively protects all metal components under environments which may be corrosive or rust prone due to moisture. LA 152 protects metal surfaces of bearings, shafts and couplings and will not absorb condensation, moisture or water into the complex molecule structure.

ELASTOMISATION COMPATIBILITY

LA 152 maintains seal elasticity and flexibility to effectively eliminate contamination ingress. In transport, agriculture, automotive, civil and general industry; dust, dirt, corrosive gases and liquids must be excluded from penetrating the lubricating grease structure and metal surfaces. LA 152 resists oxidation from corrosive elements, therefore retaining grease consistency and protecting metals from corrosion, rust and wear.

HIGH TEMPERATURE PERFORMANCE

LA 152 rapidly absorbs and dissipates heat. Frictional heat can have a marked effect on the running efficiency of equipment and the ‘slump ability’ of the grease. LA 152 performs in low and high temperature ranges. (-10°c to 260°c+) in both continuous and intermittent applications.

EXTENDED OPERATION LIFE

LA 152 demonstrates extended greasing intervals or less grease consumption when used on a regular greasing interval. Testimony to this grease is that it improves up to a 3x factor for consumption against standard commodity greases.

ENERGY SAVING

Bearing and sliding surfaces operate under complete boundary and hydro-dynamic coverage of opposing contact surfaces. Advantages to reduced frictional contact between opposing surfaces is considerably reduced metal wear and less energy consumption at start-up and run time of bearings and slides.

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LUBEALLOY MANUFACTURING AUSTRALIA PTY LTD

COMPATIBLE METAL TYPES

LA 152 has the versatility to be fully compatible and is ideal for application to the following metals and combinations of metals:

Aluminium	Cast Iron	Nickel	Antimony	Copper	Silver	Bismuth	Indium
Steel	Bronze	Iron	Tin	Cadmium	Lead	Zinc	

FEATURES	ADVANTAGES AND OPERATIONAL BENEFITS
Thermal stability and oxidation resistance	Maintains consistency in storage and high heat operation
High load carrying efficiency	Protects metal surfaces under heavy loads due to synergistic grease adhering to metal surfaces under mechanical action of friction and anti-friction bearings.
Corrosion Resistant	Protects metal surfaces from acid and base working environments
Wide temperature performance	PARA-SYN base oil allows for cold climate flow with high temperature performance in direct and radiant
Energy saving	Synergistic films provides increased co-efficient of friction to reduce drag in contact areas.
Extended grease intervals	Increased productivity and safety due to reduced maintenance staff attendance
Resistant to water wash-off	Preferred application in high water environment to stay put where water ingress cannot be avoided

APPLICATION

LA 152 can be used in both plain and anti-friction bearings, needle and sliding bearings, small gears, worm drives or as sealing grease for labyrinths. This lubricant has recorded in operating bearings, a reduction in temperature of >10°C when measured with a thermocouple instrument. LA 152 has an excellent service record under unusually high load/high speed and/or shock load service conditions. LA 152 is the prime recommendation for agricultural equipment, automotive applications, heavy transport and construction industries.

TYPICAL TEST	ASTM METHOD	LA 152
NLGI Grade		2
Type		Synthetic Hydrocarbon Oil, Lithium Complex Soap
Appearance		Purple/Fleck/Smooth
Penetration, worked @ 25°C, after 60 strokes	D.217	275 - 285
Mechanical Stability, 10,000 strokes, % change	D.217	-1.0
Dropping Point, °C	D.2265	260˚+/-(5%)
Water washout at 80°C, % lost	D.1264	<1.5
Evaporation Loss, % @ 175°C, 22 hours	D.2595	3.9 (+/-)
Bomb Oxidation, kPa drop, 100 hours 500 hours	D.942	15 (max. 35) 70(max. 105)
Copper Corrosion Test	D.4048	1B
Timken OK Load, Kg	D.2509	>30
4-Ball EP, Weld, Kg/f LWI, Kg/f	D.2596 D.2596	620 min 55+
4-Ball Wear Scar, mm, min	D.2266	0.45
Roll Stability, 50% water, % change in penetration	D.1831	7
Rust Test	D.1743	Pass
Lubrication Life, Bearing #204, 10,000 RPM, 163°C, hours	D.3336	125
Ball Joint Test, Brine Sensitivity, Torque Stability	D.3428-86	Pass
Temperature Range – Direct Thermal Heat	D.128	-10°C to 260°C (+/-)
Oil Separation, % loss	D.1742	0.1
Base Oil, cSt @ 40°C cSt @ 100°C	D.445 D.445	500 35