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DANA LUBRICANTS FACTORY L.L.C

(A Division of DANA Group)

ISO 9001:2015 & ISO 14001:2015 & ISO 45001:2018
Registered company by LLC (No: AJU-1116 & AJU-5046 & AJU-3057)

TECHNICAL DATA SHEET

MARINE LUBRICANTS FOR BUNKERING OIL SERVICES

DANALUBES MARINE 15W40

Danalubes Marine 15W40 is a premium-quality, mineral-based diesel engine oil specially formulated to deliver reliable performance and long-lasting protection for modern diesel engines. Classified as SAE 15W40 with API CH-4 performance, it is designed to meet the stringent requirements of leading global engine manufacturers.

This oil provides:

- **Excellent lubrication and wear protection for naturally aspirated and turbocharged engines.**
- **High thermal and oxidation stability, ensuring reliable performance under severe operating conditions.**
- **Superior detergency and dispersancy to maintain cleaner engines and extend component life.**
- **Compatibility with mixed fleets and wide applications including on-road transport, off-road machinery, construction, mining, marine, agriculture, and industrial equipment.**

In essence, Danalubes Marine 15W40 is engineered to ensure maximum engine efficiency, extended oil drain intervals, and reduced maintenance costs, making it a dependable choice for heavy-duty diesel applications.

PRODUCT DATA SHEET

Product description

Danalubes Marine 15W40 is a mineral-based, extra high-performance diesel engine oil formulated to deliver outstanding lubrication for modern diesel engines, thereby extending engine life. It meets or exceeds the specifications of major European and American engine manufacturers. This oil is recommended for naturally aspirated and turbocharged diesel-powered equipment from leading Japanese, European, and American manufacturers. It is suitable for mixed fleets, on- and off-highway light and heavy-duty trucks, as well as industrial applications including construction, mining, quarrying, and agricultural equipment.

Features

- **Exceptional thermal and oxidation stability ensures reliable operation while reducing maintenance costs by minimizing engine overhaul frequency.**
- **Shear stability helps maintain grade, providing superior wear protection, viscosity control, and excellent oil consumption management.**
- **Advanced detergents and dispersants promote cleaner engines and longer component life.**
- **Enhanced wear protection ensures extended durability and reliable performance under demanding conditions.**

Performance level

Danalubes Marine 15W40 meets and exceeds the following international performance standards and manufacturer approvals:

- **API CI-4**
- **ACEA A3-02, B3-98 Issue 2, B4-02, E3-96 Issue 4, E5-02**
- **VOLVO VDS-3**
- **RVI RLD**
- **MAN 3275**
- **MACK EO-M Plus**
- **Caterpillar ECF-1**
- **Global DHD-1**

Handling,Health,and Safety

Danalubes Marine 15W40 is formulated from highly refined mineral oils with specialized additives. Under normal usage conditions, it does not present any significant toxic hazard. However, as with all lubricants, it should be handled with care:

- **Avoid prolonged or repeated contact with skin.**
- **Prevent splashing and keep away from combustible materials.**
- **Store in a covered, dry area, away from potential sources of contamination or pollution.**
- **Dispose of used oil responsibly—never pour into drains, waterways, or soil. Always take used oil to an authorized collection facility.**

DANALUBES MARINE GEAR 68

PRODUCT DATA SHEET

Product description

Danalubes Industrial Gear & Bearing Oils are high-performance lubricants formulated with high-viscosity index, solvent-refined base oils and fortified with a specialized sulphur-phosphorous additive system. This ensures excellent extreme pressure (EP) protection for reliable operation in demanding conditions. These premium-quality oils are suitable for enclosed gear drives and speed reducers, from compact units to large-scale systems. They are also recommended for use in chain drives, slideways, plain and rolling bearings.

With superior water separation capability, excess water can be drained easily from lubrication systems. Designed to withstand high thermal loads, they resist sludge formation and extend oil life, even under continuous operation at bulk oil temperatures up to 100°C in certain applications.

Features

- **Provides outstanding protection against corrosion for both steel and bronze components.**
- **Formulated to reduce operational risks related to health and product handling.**
- **Available in a wide viscosity range to suit diverse and demanding industrial applications.**

- **Delivers excellent load-carrying capacity for reliable performance under heavy loads.**
- **Minimizes wear on gear teeth and bearings, ensuring long-lasting protection for steel and bronze components.**

Health and safety

- **This product is blended from highly refined mineral oils with selected additives and, under normal conditions of use, does not present significant toxic hazards.**
- **As with all lubricants, it should be handled with care—avoid prolonged or repeated contact with skin.**
- **Prevent splashing during use and keep the product away from sources of ignition or combustible materials.**
- **Store in a covered, well-ventilated area, protected from the risk of contamination or pollution.**

DANALUBES MARINE GEAR 100

PRODUCT DATA SHEET

Product description

Danalubes Industrial Gear & Bearing Oils are premium-quality lubricants formulated with high-viscosity index, solvent-refined base oils and fortified with advanced sulphur-phosphorous additives. This formulation ensures excellent extreme pressure (EP) performance, enabling reliable and trouble-free operation under demanding conditions.These oils are specifically designed for use in enclosed gear drives and speed reducers of all sizes, ranging from compact units to large systems.

Features

- **Provides reliable corrosion protection for both steel and bronze components.**
- **Formulated to lower operational risks and minimize product handling hazards.**
- **Available in a wide range of viscosities to meet diverse and demanding industrial requirements.**
- **Offers excellent load-carrying capacity for heavy-duty applications.**

- **Reduces wear on gears and bearings, extending the service life of both steel and bronze components.**

Health and safety

- **Formulated from highly refined mineral oils with selected additives, this product does not present significant toxic hazards under normal conditions of use.**
- **As with all lubricants, it should be handled carefully—avoid direct or prolonged contact with skin.**
- **Prevent splashing during handling and keep the product away from sources of ignition or combustible materials.**
- **Store in a covered, well-protected area, away from the risk of contamination or environmental pollution.**

DANALUBES MARINE GEAR 150

PRODUCT DATA SHEET

Product description

Danalubes Industrial Gear & Bearing Oils are high-quality lubricants formulated with high-viscosity index, solvent-refined base oils and enhanced with advanced sulphur-phosphorous additives. This unique formulation ensures superior extreme pressure (EP) performance, providing reliable and trouble-free operation under demanding conditions.

These premium lubricants are suitable for enclosed gear drives and speed reducers of all sizes—from small gearboxes to large industrial units. They are also recommended for chain drives, slideways, plain bearings, and rolling bearings. With excellent water separation properties, accumulated water can be drained easily from lubrication systems. Engineered to withstand high thermal loads, they resist sludge formation and ensure extended oil life, even at bulk operating temperatures up to 100°C in specific applications.

Features

- **Provides strong protection against corrosion for both steel and bronze components.**
- **Safer operational handling with reduced health and product-related risks.**
- **Available in a wide viscosity range to cover diverse and demanding industrial applications.**

- **Delivers excellent load-carrying capability under heavy-duty conditions.**

Health and safety

- **Formulated from highly refined mineral oils with selected additives, this product is not considered hazardous under normal conditions of use.**
- **As with all lubricants, it should be handled with care—avoid direct or prolonged contact with skin.**
- **Prevent splashing during handling and keep away from sources of ignition or combustible materials.**
- **Store in a covered, well-protected area, away from the risk of contamination or environmental pollution.**

DANALUBES MARINE GEAR 220

PRODUCT DATA SHEET

Product description

Danalubes Industrial Gear & Bearing Oils are manufactured from high viscosity index, solvent-refined base oils and are fortified with advanced sulphur-phosphorus additives to deliver outstanding extreme pressure (EP) performance. These premium-quality lubricants are designed for use in enclosed gear drives and speed reducers, ranging from compact gearboxes to large industrial units. They are equally suitable for chain drives, slideways, plain and rolling bearings. With excellent water separation properties, excess water can be efficiently drained from lubrication systems. Engineered to withstand high thermal loads, these oils minimize sludge formation and ensure extended service life, even at bulk oil temperatures reaching up to 100°C in demanding applications.

Features

- **Provides superior protection against corrosion for both steel and bronze components.**
- **Enhances operational safety by minimizing health risks and simplifying product handling.**
- **Available in a wide range of viscosities to meet diverse and demanding industrial requirements.**
- **Delivers excellent load-carrying performance under extreme conditions.**

Health and safety

- **Under normal conditions of use, lubricants formulated with highly refined mineral oils and specific additives do not pose significant toxic hazards. However, as with all lubricants, they should be handled with care, avoiding direct contact with skin.**

- **Prevent splashing during use and keep the product away from combustible materials. Store in a covered area, protected from contamination and environmental hazards.**

- **Dispose of used oil responsibly. Never discharge into drains, watercourses, or soil.**

- **Always deliver used oil to an authorized collection or disposal facility.**

DANALUBES MARINE GEAR 320

PRODUCT DATA SHEET

Product description

Danalubes Gear & Bearing Oils are specially formulated with high viscosity index, solvent-refined base oils and enhanced with advanced sulphur-phosphorus additives to deliver exceptional extreme pressure (EP) performance for reliable operation. These premium-grade lubricants are suitable for enclosed gear drives and speed reducers of all sizes, from compact gearboxes to large industrial systems.

The oils demonstrate outstanding water separation characteristics, allowing easy drainage of excess water from lubrication systems. Designed to withstand high thermal stress, they resist sludge formation and provide extended service life, even under bulk oil temperatures of up to 100°C in demanding applications.

Features

- **Provides superior protection against corrosion for both steel and bronze components.**

- **Enhances operational safety by reducing health hazards and simplifying handling.**

- **Available in a broad range of viscosities to suit diverse and heavy-duty industrial applications.**

- **Offers excellent load-carrying capacity under extreme operating conditions.**

Health and safety

- **Under normal conditions of use, lubricants made with highly refined mineral oils and selected additives are not considered to present significant toxic hazards. However, as with all lubricants, they should always be handled carefully, avoiding prolonged or repeated contact with skin.**

- **Prevent splashing during use and keep the product away from sources of ignition and combustible materials. Store in a covered, well-ventilated area, protected from contamination and environmental risks.**

- **Dispose of used oil responsibly. Do not discharge into drains, waterways, or soil.**

- **Always deliver used oil to an authorized collection or recycling facility.**

DANALUBES MARINE GEAR 460

PRODUCT DATA SHEET

Product description

Danalubes Industrial Gear & Bearing Oils are specially formulated using high-viscosity index, solvent-refined base oils combined with advanced sulphur-phosphorus additives. This ensures superior extreme pressure performance, enabling smooth and trouble-free operation. These premium-quality lubricants are designed for enclosed gear drives and speed reducers of all sizes, from compact gearboxes to large industrial systems. They are also suitable for chain drives, slideways, plain bearings, and rolling gears. With outstanding water separation properties, excess water can be easily drained from lubrication systems. Dana Gear & Bearing Oils withstand high thermal loads, resist sludge formation, and deliver extended oil life—even at bulk oil temperatures reaching up to 100°C in specific applications.

Features

Provides strong protection for both steel and bronze components against corrosion.
Enhances operational safety by minimizing health risks and easing product removal.
Available in a wide range of viscosities to meet diverse and demanding industrial requirements.
Offers excellent load-carrying capacity.
Minimizes gear tooth and bearing wear on both steel and bronze components.

Health and safety

These lubricants are formulated with highly refined mineral oils and specific additives. Under normal usage, they do not pose significant toxic hazards. However, like all lubricants, they should be handled with care, avoiding prolonged or repeated skin contact.

Prevent splashing during use and keep the product away from combustible materials. Store in a covered area, protected from pollution risks. Dispose of used oil responsibly—never pour it into drains, watercourses, or soil.

Always deliver used oil to an authorized collection point for proper recycling or disposal.

DANALUBES MARINE GEAR 680

PRODUCT DATA SHEET

Product description

Dana Industrial Gear & Bearing Oils are specially formulated using high-viscosity index, solvent-refined base oils combined with advanced sulphur-phosphorus additives. This ensures superior extreme pressure performance, enabling smooth and trouble-free operation. These premium-quality lubricants are designed for enclosed gear drives and speed reducers of all sizes, from compact gearboxes to large industrial systems.

They are also suitable for chain drives, slideways, plain bearings, and rolling gears. With outstanding water separation properties, excess water can be easily drained from lubrication systems. Dana Gear & Bearing Oils withstand high thermal loads, resist sludge formation, and deliver extended oil life—even at bulk oil temperatures reaching up to 100°C in specific applications.

Features

- **Provides strong protection for both steel and bronze components against corrosion.**
- **Enhances operational safety by minimizing health risks and easing product removal.**
- **Available in a wide range of viscosities to meet diverse and demanding industrial requirements.**
- **Offers excellent load-carrying capacity.**
- **Minimizes gear tooth and bearing wear on both steel and bronze components.**

Health and safety

- **These lubricants are formulated with highly refined mineral oils and specific additives. Under normal usage, they do not pose significant toxic hazards. However, like all lubricants, they should be handled with care, avoiding prolonged or repeated skin contact.**
- **Prevent splashing during use and keep the product away from combustible materials. Store in a covered area, protected from pollution risks. Dispose of used oil responsibly—never pour it into drains, watercourses, or soil.**
- **Always deliver used oil to an authorized collection point for proper recycling or disposal.**

DANALUBES MARINE HYDRAULIC OIL HVI15

PRODUCT DATA SHEET

Product description

Dana Hydraulic (HVI) Oils are high viscosity index (VI) multi-grade hydraulic fluids, designed to deliver reliable performance in marine hydraulic systems operating across

different climate zones. Their formulation includes advanced VI improvers with exceptional resistance to shear, ensuring stable viscosity under severe operating conditions.

To reduce the impact of water contamination, DANA Hydraulic (HVI) Oils provide outstanding water separability, verified by ASTM D1401 testing. They also contain highly effective corrosion inhibitors, demonstrated by excellent results in the IP 135B (steel in seawater) corrosion test.

These oils are suitable for lubricating high-pressure, high-speed vane, piston, and gear-type hydraulic pumps, as well as equipment operating over a wide temperature range. Additionally, they may be used in certain marine gearboxes and turbocharged lubrication systems.

Features

- **Superior anti-wear protection for extended component life.**
- **High resistance to oxidation, ensuring longer oil service life.**
- **Excellent shear stability under demanding conditions.**
- **Outstanding demulsibility and resistance to foaming.**
- **Fully compatible with all conventional rubber seal materials.**
- **High viscosity index, achieved through highly refined base oils.**
- **Excellent anti-corrosion and anti-rust performance.**
- **Effective water separation properties.**

Performance levels

Dana Hydraulic (HVI) Oils meet or exceed the following industry specifications and performance standards:

- **Vickers I-286-S, M-2950-S**
- **Denison HF-0, HF-1, HF-2**
- **General Motors LH-04-1, LH-06-1, LH-15-1**
- **Cincinnati Milacron P-68, P-69, P-70**
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- **U.S. Steel 126, 127**

Health and safety

- **Under normal conditions of use, lubricants formulated with highly refined mineral oils and specific additives are not considered to pose significant toxic risks. However, as with all lubricants, they should be handled carefully, avoiding prolonged or repeated skin contact.**

- **Prevent splashing during use and keep the product away from heat sources and combustible materials. Store in a covered area, protected from contamination and environmental exposure.**

- **Dispose of used oil responsibly. Do not discharge into drains, waterways, or soil.**

DANALUBES MARINE HYDRAULIC OIL HVI22

PRODUCT DATA SHEET

Product description

Dana Hydraulic (HVI) Oils are high viscosity index (VI) multi-grade hydraulic fluids, designed to deliver reliable performance across a wide range of operating conditions. Their advanced formulation enables a single oil grade to be used in marine hydraulic systems functioning in different climate zones.

A key feature of these oils is the incorporation of VI improvers with exceptional shear stability, ensuring consistent performance even under severe operating conditions. To reduce the impact of water contamination, Dana Hydraulic HVI Oils exhibit excellent water separability as verified by ASTM D1401 testing. They also provide superior corrosion protection, demonstrated by outstanding results in the IP 135B (steel in seawater) corrosion test.

Dana Hydraulic HVI Oils are suitable for lubricating all high-pressure, high-speed vane, piston, and gear-type hydraulic pumps, as well as other equipment operating across wide temperature ranges. In addition, they may also be used in certain marine gearboxes and turbocharged lubrication systems.

Features

- **Outstanding anti-wear protection**
- **Excellent resistance to oxidation for extended service life**
- **Superior shear stability under high stress conditions**
- **Excellent demulsibility and resistance to foaming**
- **Compatible with a wide range of rubber seal materials**

Health and safety

- **These lubricants are made from highly refined mineral oils with selected additives and, under normal conditions of use, do not present significant toxic hazards. However, like all lubricants, they should be handled with care, avoiding unnecessary skin contact.**
- **Prevent splashing during handling and keep the product away from open flames, heat sources, and combustible materials. Store in a covered area, protected from contamination and pollution risks.**
- **Dispose of used oil responsibly—never discharge into drains, waterways, or soil.**
- **Always take used oil to an authorized collection facility for safe disposal or recycling.**

DANALUBES MARINE HYDRAULIC OIL HVI 32

PRODUCT DATA SHEET

Product description

Dana Hydraulic (HVI) Oils are high viscosity index (VI) multi-grade hydraulic fluids, designed to deliver reliable performance across a wide range of operating conditions. Their advanced formulation enables a single oil grade to be used in marine hydraulic systems functioning in different climate zones.

A key feature of these oils is the incorporation of VI improvers with exceptional shear stability, ensuring consistent performance even under severe operating conditions. To reduce the impact of water contamination, Dana Hydraulic HVI Oils exhibit excellent water separability as verified by ASTM D1401 testing. They also provide superior corrosion protection, demonstrated by outstanding results in the IP 135B (steel in seawater) corrosion test.

Dana Hydraulic HVI Oils are suitable for lubricating all high-pressure, high-speed vane, piston, and gear-type hydraulic pumps, as well as other equipment operating across wide temperature ranges. In addition, they may also be used in certain marine gearboxes and turbocharged lubrication systems.

Features

- **Outstanding anti-wear protection**
- **Excellent resistance to oxidation for extended service life**
- **Superior shear stability under high stress conditions**
- **Excellent demulsibility and resistance to foaming**
- **Compatible with a wide range of rubber seal materials**

Health and safety

- **These lubricants are made from highly refined mineral oils with selected additives and, under normal conditions of use, do not present significant toxic hazards. However, like**

all lubricants, they should be handled with care, avoiding unnecessary skin contact.

- Prevent splashing during handling and keep the product away from open flames, heat sources, and combustible materials. Store in a covered area, protected from contamination and pollution risks.
- Dispose of used oil responsibly—never discharge into drains, waterways, or soil.
- Always take used oil to an authorized collection facility for safe disposal or recycling.

DANALUBES MARINE HYDRAULIC OIL HVI 46

PRODUCT DATA SHEET

Product description

Dana Hydraulic (HVI) Oils are high viscosity index (VI) multi-grade hydraulic fluids, designed to deliver reliable performance across a wide range of operating conditions. Their advanced formulation enables a single oil grade to be used in marine hydraulic systems functioning in different climate zones.

A key feature of these oils is the incorporation of VI improvers with exceptional shear stability, ensuring consistent performance even under severe operating conditions. To reduce the impact of water contamination, Dana Hydraulic HVI Oils exhibit excellent water separability as verified by ASTM D1401 testing. They also provide superior corrosion protection, demonstrated by outstanding results in the IP 135B (steel in seawater) corrosion test.

Dana Hydraulic HVI Oils are suitable for lubricating all high-pressure, high-speed vane, piston, and gear-type hydraulic pumps, as well as other equipment operating across wide temperature ranges. In addition, they may also be used in certain marine gearboxes and turbocharged lubrication systems.

Features

- Outstanding anti-wear protection
- Excellent resistance to oxidation for extended service life
- Superior shear stability under high stress conditions
- Excellent demulsibility and resistance to foaming
- Compatible with a wide range of rubber seal materials

Health and safety

- These lubricants are made from highly refined mineral oils with selected additives and, under normal conditions of use, do not present significant toxic hazards. However, like all lubricants, they should be handled with care, avoiding unnecessary skin contact.
- Prevent splashing during handling and keep the product away from open flames, heat sources, and combustible materials. Store in a covered area, protected from

contamination and pollution risks.
- Dispose of used oil responsibly—never discharge into drains, waterways, or soil.
- Always take used oil to an authorized collection facility for safe disposal or recycling.

DANALUBES MARINE HYDRAULIC OIL HVI 68

PRODUCT DATA SHEET

Product description

Dana Hydraulic (HVI) Oils are high viscosity index (VI) multi-grade hydraulic fluids, designed to deliver reliable performance across a wide range of operating conditions. Their advanced formulation enables a single oil grade to be used in marine hydraulic systems functioning in different climate zones.

A key feature of these oils is the incorporation of VI improvers with exceptional shear stability, ensuring consistent performance even under severe operating conditions. To reduce the impact of water contamination, Dana Hydraulic HVI Oils exhibit excellent water separability as verified by ASTM D1401 testing. They also provide superior corrosion protection, demonstrated by outstanding results in the IP 135B (steel in seawater) corrosion test.

Dana Hydraulic HVI Oils are suitable for lubricating all high-pressure, high-speed vane, piston, and gear-type hydraulic pumps, as well as other equipment operating across wide temperature ranges. In addition, they may also be used in certain marine gearboxes and turbocharged lubrication systems.

Features

- Outstanding anti-wear protection
- Excellent resistance to oxidation for extended service life
- Superior shear stability under high stress conditions
- Excellent demulsibility and resistance to foaming
- Compatible with a wide range of rubber seal materials

Health and safety

- These lubricants are made from highly refined mineral oils with selected additives and, under normal conditions of use, do not present significant toxic hazards. However, like all lubricants, they should be handled with care, avoiding unnecessary skin contact.
- Prevent splashing during handling and keep the product away from open flames, heat sources, and combustible materials. Store in a covered area, protected from contamination and pollution risks.
- Dispose of used oil responsibly—never discharge into drains, waterways, or soil.

- **Always take used oil to an authorized collection facility for safe disposal or recycling.**

DANALUBES MARINE HYDRAULIC OIL HVI 100

PRODUCT DATA SHEET

Product description

Dana Hydraulic (HVI) Oils are high viscosity index (VI) multi-grade hydraulic fluids, designed to deliver reliable performance across a wide range of operating conditions. Their advanced formulation enables a single oil grade to be used in marine hydraulic systems functioning in different climate zones.

A key feature of these oils is the incorporation of VI improvers with exceptional shear stability, ensuring consistent performance even under severe operating conditions. To reduce the impact of water contamination, Dana Hydraulic HVI Oils exhibit excellent water separability as verified by ASTM D1401 testing. They also provide superior corrosion protection, demonstrated by outstanding results in the IP 135B (steel in seawater) corrosion test.

Dana Hydraulic HVI Oils are suitable for lubricating all high-pressure, high-speed vane, piston, and gear-type hydraulic pumps, as well as other equipment operating across wide temperature ranges. In addition, they may also be used in certain marine gearboxes and turbocharged lubrication systems.

Features

- **Outstanding anti-wear protection**
- **Excellent resistance to oxidation for extended service life**
- **Superior shear stability under high stress conditions**
- **Excellent demulsibility and resistance to foaming**
- **Compatible with a wide range of rubber seal materials**

Health and safety

- **These lubricants are made from highly refined mineral oils with selected additives and, under normal conditions of use, do not present significant toxic hazards. However, like all lubricants, they should be handled with care, avoiding unnecessary skin contact.**
- **Prevent splashing during handling and keep the product away from open flames, heat sources, and combustible materials. Store in a covered area, protected from contamination and pollution risks.**
- **Dispose of used oil responsibly—never discharge into drains, waterways, or soil.**
- **Always take used oil to an authorized collection facility for safe disposal or recycling.**

DANALUBES MARINE HYDRAULIC OIL HVI 150

PRODUCT DATA SHEET

Product description

Dana Hydraulic (HVI) Oils are high viscosity index (VI) multi-grade hydraulic fluids, designed to deliver reliable performance across a wide range of operating conditions. Their advanced formulation enables a single oil grade to be used in marine hydraulic systems functioning in different climate zones.

A key feature of these oils is the incorporation of VI improvers with exceptional shear stability, ensuring consistent performance even under severe operating conditions. To reduce the impact of water contamination, Dana Hydraulic HVI Oils exhibit excellent water separability as verified by ASTM D1401 testing. They also provide superior corrosion protection, demonstrated by outstanding results in the IP 135B (steel in seawater) corrosion test.

Dana Hydraulic HVI Oils are suitable for lubricating all high-pressure, high-speed vane, piston, and gear-type hydraulic pumps, as well as other equipment operating across wide temperature ranges. In addition, they may also be used in certain marine gearboxes and turbocharged lubrication systems.

Features

- **Outstanding anti-wear protection**
- **Excellent resistance to oxidation for extended service life**
- **Superior shear stability under high stress conditions**
- **Excellent demulsibility and resistance to foaming**
- **Compatible with a wide range of rubber seal materials**

Health and safety

- **These lubricants are made from highly refined mineral oils with selected additives and, under normal conditions of use, do not present significant toxic hazards. However, like all lubricants, they should be handled with care, avoiding unnecessary skin contact.**
- **Prevent splashing during handling and keep the product away from open flames, heat sources, and combustible materials. Store in a covered area, protected from contamination and pollution risks.**
- **Dispose of used oil responsibly—never discharge into drains, waterways, or soil.**
- **Always take used oil to an authorized collection facility for safe disposal or recycling.**

DANALUBES MARINE REF COMPRESSOR OIL(32 & 46)

PRODUCT DATA SHEET

Product description

Dana Refrigeration Oil Series are high-performance naphthenic refrigeration compressor oils, engineered to meet the stringent requirements of major refrigeration compressor manufacturers. These oils are formulated with severely hydrotreated naphthenic base stocks, ensuring excellent resistance to oxidation, rust, corrosion, foaming, and entrained air. They are specifically designed for refrigeration systems using non-hydrofluorocarbon refrigerants.

Features

- **Superior thermo-oxidative stability minimizes deposit formation in evaporator tubes, improves heat transfer, extends oil life, and enhances overall equipment reliability and efficiency.**
- **Free from additives and pour-point depressants, ensuring consistent performance without impairing refrigeration system operation.**
- **Low pour point and floc point guarantee smooth functioning at very low operating temperatures.**
- **Strong wear and rust protection reduces maintenance requirements and prolongs equipment service life.**

Performance level

- **Suitable for large industrial reciprocating and rotary refrigeration compressors.**
- **Ideal for marine refrigeration applications such as food freezing and cold storage plants.**
- **Compatible with most non-hydrofluorocarbon refrigerant gases and compressors from manufacturers including Carrier, Copeland, Kelvinator, Sabroe, and Tecumseh, where this quality is specified.**
- **Can also be applied in circulating oil systems, plain bearings, and rolling element bearings.**

Health and safety

- **Composed of highly refined mineral oils with specific additives, these lubricants are considered non-toxic under normal use. Nevertheless, they should always be handled carefully, avoiding unnecessary skin contact.**
- **Prevent splashing during handling and keep the product away from heat, flames, and combustible materials. Store in a covered, well-ventilated area, away from potential sources of pollution.**
- **Used oil must be disposed of responsibly. Do not discharge into drains, waterways, or soil.**

- **Always take used oil to an authorized collection facility for safe disposal or recycling.**

DANALUBES MARINE REF COMPRESSOR OIL68

PRODUCT DATA SHEET

Product description

Dana Refrigeration Oil Series are high-performance naphthenic refrigeration compressor oils, engineered to meet the stringent requirements of major refrigeration compressor manufacturers. These oils are formulated with severely hydrotreated naphthenic base stocks, ensuring excellent resistance to oxidation, rust, corrosion, foaming, and entrained air.They are specifically designed for refrigeration systems using non-hydrofluorocarbon refrigerants.

Features

- **Superior thermo-oxidative stability minimizes deposit formation in evaporator tubes, improves heat transfer, extends oil life, and enhances overall equipment reliability and efficiency.**
- **Free from additives and pour-point depressants, ensuring consistent performance without impairing refrigeration system operation.**
- **Low pour point and floc point guarantee smooth functioning at very low operating temperatures.**
- **Strong wear and rust protection reduces maintenance requirements and prolongs equipment service life.**

Performance level

- **Suitable for large industrial reciprocating and rotary refrigeration compressors.**
- **Ideal for marine refrigeration applications such as food freezing and cold storage plants.**
- **Compatible with most non-hydrofluorocarbon refrigerant gases and compressors from manufacturers including Carrier, Copeland, Kelvinator, Sabroe, and Tecumseh, where this quality is specified.**
- **Can also be applied in circulating oil systems, plain bearings, and rolling element bearings.**

Health and safety

- **Composed of highly refined mineral oils with specific additives, these lubricants are considered non-toxic under normal use. Nevertheless, they should always be handled carefully, avoiding unnecessary skin contact.**
- **Prevent splashing during handling and keep the product away from heat, flames, and combustible materials. Store in a covered, well-ventilated area, away from potential**

sources of pollution.

- Used oil must be disposed of responsibly. Do not discharge into drains, waterways, or soil.

DANALUBES MARINE COMPRESSOR OIL68

PRODUCT DATA SHEET

Product description

Dana Compressor Oils are formulated from high-quality, solvent-refined, high-viscosity index base oils and fortified with advanced additive technology. Dana Air Compressor Oils are engineered to deliver excellent oxidation stability, corrosion and rust protection, and resistance to foaming. They maintain superior thermal and oxidative stability at elevated temperatures, helping to minimize deposit formation and extend oil life. With excellent water-separating properties, they prevent emulsion formation and resist excessive foaming. These oils are recommended for lubrication of single-stage and multi-stage reciprocating compressors where manufacturers specify DIN 51506 VDL oils.

Features

- Outstanding oxidation resistance and thermal stability
- Superior foam resistance with low carbon-forming tendency
- Reliable protection against rust and corrosion
- Excellent demulsibility for effective water separation
- Prevents sludge and varnish formation

Applications

- Suitable for vacuum pumps
- Ideal for air compressors with low discharge temperatures

Health and safety

▪ Composed of highly refined mineral oils with specialized additives, these lubricants are not considered hazardous under normal usage conditions. However, they should always be handled carefully, avoiding unnecessary skin contact.

▪ Prevent splashing during use and keep the product away from heat, flames, and combustible materials. Store in a covered, well-ventilated area, away from sources of contamination.

▪ Used oil must be disposed of responsibly. Do not discharge into drains, waterways, or soil. Ensure disposal through authorized collection points in compliance with local regulations.

DANALUBES MARINE COMPRESSOR OIL100

PRODUCT DATA SHEET

Product description

Dana Compressor Oils are formulated from high-quality, solvent-refined, high-viscosity index base oils and fortified with advanced additive technology. Dana Air Compressor Oils are engineered to deliver excellent oxidation stability, corrosion and rust protection, and resistance to foaming. They maintain superior thermal and oxidative stability at elevated temperatures, helping to minimize deposit formation and extend oil life. With excellent water-separating properties, they prevent emulsion formation and resist excessive foaming. These oils are recommended for lubrication of single-stage and multi-stage reciprocating compressors where manufacturers specify DIN 51506 VDL oils.

Features

- **Outstanding oxidation resistance and thermal stability**
- **Superior foam resistance with low carbon-forming tendency**
- **Reliable protection against rust and corrosion**
- **Excellent demulsibility for effective water separation**
- **Prevents sludge and varnish formation**

Applications

- **Suitable for vacuum pumps**
- **Ideal for air compressors with low discharge temperatures**

Health and safety

▪ Composed of highly refined mineral oils with specialized additives, these lubricants are not considered hazardous under normal usage conditions. However, they should always be handled carefully, avoiding unnecessary skin contact.
▪ Prevent splashing during use and keep the product away from heat, flames, and combustible materials. Store in a covered, well-ventilated area, away from sources of contamination.
▪ Used oil must be disposed of responsibly. Do not discharge into drains, waterways, or soil. Ensure disposal through authorized collection points in compliance with local regulations.

DANALUBES MARINE THERMAL OIL 32

PRODUCT DATA SHEET

Product description

Dana Therm Oils are high-quality heat transfer fluids manufactured from highly refined, high-viscosity index paraffinic base oils. They are non-toxic and formulated to deliver

excellent resistance to thermal cracking and oxidation. With high heat content and superior thermal conductivity, these oils ensure rapid heating and efficient performance of heat transfer systems. Dana Therm Oils are designed for use in systems with forced circulation.

Applications

- **Thermal fluid heating systems**
- **Oil circulation systems**
- **Open systems operating at temperatures up to 200°C**
- **Closed systems operating at bulk oil temperatures up to 320°C**

Health and safety

- **Composed of highly refined mineral oils with selected additives, these lubricants are generally considered non-toxic under normal conditions of use. Nevertheless, all lubricants should be handled with care, avoiding unnecessary or prolonged skin contact.**
- **Prevent splashing during handling and keep away from sources of heat, flames, and combustible materials. Store in a covered, well-ventilated area, protected from contamination.**
- **Dispose of used oil responsibly. Do not release into drains, waterways, or soil. Always deliver used oil to an authorized collection facility for proper recycling or disposal.**

DANALUBES MARINE TURBINE OIL32/46/68/100

PRODUCT DATA SHEET

Product description

Dana Turbine Oils are manufactured using highly refined paraffinic base oils combined with carefully selected ashless additives to ensure superior performance and protection for turbine systems. These oils deliver excellent oxidation resistance and thermal stability, even at elevated temperatures, helping to reduce deposit formation and extend service life. With strong load-carrying capability and high metal affinity, they safeguard against wear while providing natural detergency for enhanced system cleanliness. They also offer effective protection against rust and corrosion, along with excellent low-temperature fluidity, making them suitable for a wide operating temperature range. Dana Turbine Oils are recommended for use in steam, gas, and hydraulic turbine applications.

Features

- **Superior oxidation stability**
- **Excellent resistance to foam formation**
- **Rapid air release capability**

- **Strong protection against rust and corrosion**
- **Outstanding demulsification properties**
- **Stable viscosity-temperature characteristics**

Performance levels

- **GEK – 32568A**
- **BS – 489**
- **USS – 126**
- **GM – P – 54**

Health and safety

- **Lubricants made from highly refined mineral oils with specific additives are not considered hazardous under normal use. However, all lubricants should always be handled with care, avoiding direct contact with skin whenever possible.**
- **Prevent splashing and keep the product away from sources of ignition or combustible materials. Store in a covered, protected area to minimize the risk of pollution. Used oil must be disposed of responsibly—never pour into drains, waterways, or soil.**
- **Ensure used oil is delivered to an authorized collection facility for proper disposal.**

DANALUBES MARINE TURBINE OIL46

PRODUCT DATA SHEET

Product description

Dana Turbine Oils are manufactured using highly refined paraffinic base oils combined with carefully selected ashless additives to ensure superior performance and protection for turbine systems. These oils deliver excellent oxidation resistance and thermal stability, even at elevated temperatures, helping to reduce deposit formation and extend service life. With strong load-carrying capability and high metal affinity, they safeguard against wear while providing natural detergency for enhanced system cleanliness. They also offer effective protection against rust and corrosion, along with excellent low-temperature fluidity, making them suitable for a wide operating temperature range. Dana Turbine Oils are recommended for use in steam, gas, and hydraulic turbine applications.

Features

- **Superior oxidation stability**
- **Excellent resistance to foam formation**
- **Rapid air release capability**
- **Strong protection against rust and corrosion**
- **Outstanding demulsification properties**
- **Stable viscosity-temperature characteristics**

Performance levels

- **GEK – 32568A**
- **BS – 489**
- **USS – 126**
- **GM – P – 54**

Health and safety

- **Lubricants made from highly refined mineral oils with specific additives are not considered hazardous under normal use. However, all lubricants should always be handled with care, avoiding direct contact with skin whenever possible.**
- **Prevent splashing and keep the product away from sources of ignition or combustible materials. Store in a covered, protected area to minimize the risk of pollution. Used oil must be disposed of responsibly—never pour into drains, waterways, or soil.**
- **Ensure used oil is delivered to an authorized collection facility for proper disposal.**

DANALUBES MARINE TURBINE OIL68

PRODUCT DATA SHEET

Product description

Dana Turbine Oils are manufactured using highly refined paraffinic base oils combined with carefully selected ashless additives to ensure superior performance and protection for

turbinesystems. These oils deliver excellent oxidation resistance and thermal stability, even at elevated temperatures, helping to reduce deposit formation and extend service life. With strong load-carrying capability and high metal affinity, they safeguard against wear while providing natural detergency for enhanced system cleanliness. They also offer effective protection against rust and corrosion, along with excellent low-temperature fluidity, making them suitable for a wide operating temperature range. Dana Turbine Oils are recommended for use in steam, gas, and hydraulic turbine applications.

Features

- **Superior oxidation stability**
- **Excellent resistance to foam formation**
- **Rapid air release capability**
- **Strong protection against rust and corrosion**
- **Outstanding demulsification properties**
- **Stable viscosity-temperature characteristics**

Performance levels

- **GEK – 32568A**
- **BS – 489**
- **USS – 126**
- **GM – P – 54**

Health and safety

- **Lubricants made from highly refined mineral oils with specific additives are not considered hazardous under normal use. However, all lubricants should always be handled with care, avoiding direct contact with skin whenever possible.**
- **Prevent splashing and keep the product away from sources of ignition or combustible materials. Store in a covered, protected area to minimize the risk of pollution. Used oil must be disposed of responsibly—never pour into drains, waterways, or soil.**
- **Ensure used oil is delivered to an authorized collection facility for proper disposal.**

DANALUBES MARINE TURBINE OIL100

PRODUCT DATA SHEET

Product description

Dana Turbine Oils are manufactured using highly refined paraffinic base oils combined with carefully selected ashless additives to ensure superior performance and protection for turbine systems. These oils deliver excellent oxidation resistance and thermal stability, even at elevated temperatures, helping to reduce deposit formation and extend service life. With strong load-carrying capability and high metal affinity, they safeguard against wear while providing natural detergency for enhanced system cleanliness. They also offer effective protection against rust and corrosion, along with excellent low-temperature fluidity, making them suitable for a wide operating temperature range. Dana Turbine Oils are recommended for use in steam, gas, and hydraulic turbine applications.

Features

- **Superior oxidation stability**
- **Excellent resistance to foam formation**
- **Rapid air release capability**
- **Strong protection against rust and corrosion**
- **Outstanding demulsification properties**
- **Stable viscosity-temperature characteristics**

Performance levels

- **GEK – 32568A**
- **BS – 489**
- **USS – 126**
- **GM – P – 54**

Health and safety

- **Lubricants made from highly refined mineral oils with specific additives are not considered hazardous under normal use. However, all lubricants should always be handled with care, avoiding direct contact with skin whenever possible.**
- **Prevent splashing and keep the product away from sources of ignition or combustible**

materials. Store in a covered, protected area to minimize the risk of pollution. Used oil must be disposed of responsibly—never pour into drains, waterways, or soil.

- **Ensure used oil is delivered to an authorized collection facility for proper disposal.**