



SHELL DELIMA[®] OILS

Multi-functional circulating oils with detergent, anti-wear and oxidation inhibiting features

Product Description

Shell Delima[®] Oils are premium quality circulating oils specifically formulated to meet the demanding lubrication requirements of modern, high-speed paper machines with centralized lube systems. These products contain a carefully selected, barium-free detergent, anti-wear and oxidation resistant additive system that provides good machine cleanliness, effective dispersion of contaminants, while allowing rapid water separation in the reservoir. The specially balanced additive package and highly refined base stocks account for the outstanding filterability of the series. These properties make **Shell Delima[®] Oils** a good choice for high temperature circulating systems, especially those that employ water-cooling or steam heating.

Shell's Delima[®] Oils are available in three ISO viscosity grades (150, 220, 320) to cover the temperatures encountered in the dryer roll bearings of modern, high-speed paper machines.

Applications

- circulating systems of paper machines
- high temperature, heavy-duty service such as in dryer roll bearings of kraft and board machines
- reduction gears and gear head motors
- hand and ring-oiled bearings of calender stacks
- suction box pumps and vacuum and white water pumps
- dryer felt rolls
- controlled crown roll systems

Features/Benefits

- excellent filterability for use with ultra-fine filters
- excellent resistance to deposit formation
- rust and oxidation protection
- outstanding wear and corrosion protection
- excellent demulsibility for ease of water removal

Typical Properties of Shell Delima® Oils

	Test	ISO Viscosity Grade		
	Method	150	220	320
Product Code		65528	65529	65532
Gravity, °API	D 1298	27.2	26.7	26.4
Viscosity:				
@ 40°C, cSt	D 445	150	220	320
@ 100°C, cSt	D 445	14.2	18.4	23.4
@ 100°F, SUS	(calc)	790	1166	1708
@ 210°F, SUS	(calc)	76.5	94	117
Viscosity Index	D 2270	91	92	92
Flash Point, COC, °F	D 92	485	490	495
Pour Point, °F	D 97	15	15	15
RBOT, minutes	D 2272	150	150	150
Rust Test, SSW	D 665B	Pass	Pass	Pass
Copper Corrosion, 48 hrs @ 250°F	D 130	1b	1b	1b
Minutes to 40/40/0 ml	D 1401	15	15	15
Wheeling Steel Demulsibility Free Water, ml	D 2711	40	40	40
Four-Ball Wear, mm 1 hr, 54°C, 1800 rpm, 40 kgf	D 2266	0.46	0.46	0.46

Handling & Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.