



REVOLUTION SYNTHETIC OIL

INDUSTRIAL PRODUCT GUIDE

Ultra-performance synthetic lubricants for turbines, compressors, pumps, bearings and gears.

REVOSYN XP • REVOCIRC • REVOCOMP • REVOPUMP • REVOSOLV VR • REVOCHARGE

ABOUT US

Revolution Synthetic Oil

Ultra-performance lubricants, engineered for reliability.

FORMULATING SINCE
2009

2009

FOUNDED

6

CORE FORMULATIONS

**PAO +
ESTER**

SYNTHETIC BASE OILS

15 – 320

ISO VG RANGE
COVERED

Since 2009, Revolution Synthetic Oil has formulated ultra and high-performance synthetic lubricants for the equipment industrial operations depend on: turbines, compressors, pumps, bearings and gears.

Our range is built on PAO and ester base oils with proprietary additive systems, engineered to hold a protective film under heat and load, resist oxidation, and keep systems cleaner for longer.

Every product in this guide is formulated with the same underlying philosophy that opens the Lubrication 101 section: viscosity, film strength and cleanliness are not details — they are what stands between planned maintenance and an unplanned breakdown.

WHAT WE STAND FOR

- **Formulation science** — PAO and ester base oils, proprietary additive systems.
- **Reliability first** — longer oil life, fewer breakdowns, more uptime.
- **Practical support** — data sheets and guidance engineers can act on, not just marketing.

WHERE OUR OILS WORK

Turbines & compressors

Gas and steam turbines, rotary screw, lobe and vane compressors.

Pumps

ANSI and API centrifugal pumps, including API OH6 gearboxes.

Bearings & gears

Rolling-element bearings, journals and gearboxes, EP and non-EP.

Circulating systems

Machine shop equipment, mill rolls and general circulating oil systems.

Additive & deposit care

Replenishing depleted additives and dissolving varnish in service.

OUR RANGE AT A GLANCE

PRODUCT	WHAT IT DOES	ISO GRADES / TREAT RATE
REVOSYN XP	Ultra-performance circulating oil for turbines, compressors, pumps and gears.	ISO VG 15 – 320
REVOCIRC	High-performance circulating oil for bearings, turbines, journals and gearboxes (non-EP).	ISO VG 32 – 320
REVOCOMP	Synthetic oil for rotary screw, lobe and vane compressors.	ISO VG 32 – 150
REVOPUMP	Synthetic oil for ANSI / API centrifugal pumps.	ISO VG 32 – 150
REVOSOLV VR	Solubility enhancer for varnish and deposit control.	5 – 10% treat rate
REVOCHARGE	Additive system that replenishes depleted in-service lubricants.	10 – 15% treat rate

IN THIS GUIDE

Turn the page for practical lubrication guidance — viscosity, the kappa ratio, contamination control and field habits — then the full data sheet for every product.

THE BASICS

LUBRICATION 101

What your oil really does

01

A lubricant is a machine component, not a consumable. Every litre in your system is working on five jobs at once — and when one of them slips, the others follow.

01

Reduces friction

A thin film keeps moving surfaces apart, so they slide on oil instead of on each other.

02

Limits wear

Anti-wear additives protect surfaces when the film thins — at start-up, low speed or shock load.

03

Removes heat

In circulating systems the oil carries heat away from bearings and gears to the cooler.

04

Controls contamination

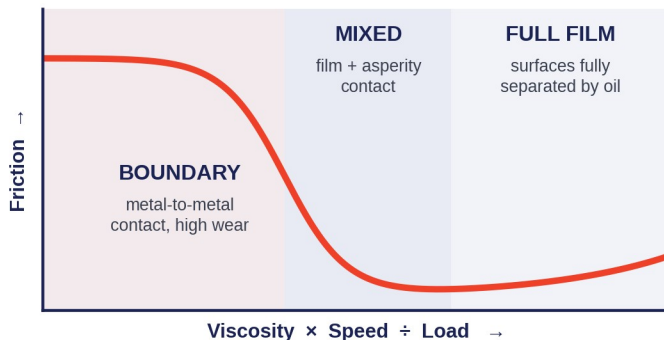
Carries debris to the filter and separates water so it can be drained off.

05

Prevents corrosion

Rust and corrosion inhibitors protect metal surfaces, even while equipment stands idle.

THREE LUBRICATION REGIMES



Boundary — the film is too thin and surfaces touch. Wear is high and you depend on additives. Typical at start-up, low speed and heavy load.

Mixed — the film carries part of the load; some surface contact remains.

Full film — surfaces are completely separated. Friction and wear are at their lowest. This is the goal.

Viscosity, speed and load decide where you sit on the curve. Heat lowers viscosity and pushes you left.

WHY THE BASE OIL MATTERS

BASE OIL	TYPICAL STRENGTHS	WATCH-OUTS
Mineral	Lower cost, widely available, good general-purpose performance.	Lower viscosity index; less stable at high temperature; wax can limit low-temperature flow.
PAO (synthetic)	High viscosity index, excellent thermal and oxidation stability, flows in the cold, low volatility.	Low natural solvency, so it is usually blended with an ester.
Ester (synthetic)	Strong lubricant film, high thermal stability, natural solvency helps keep systems clean.	Can affect some seals and paints — check compatibility.

REVOSYN XP is formulated with PAO and ester base oils plus proprietary additives — see the data sheet that follows.

VISCOSITY

LUBRICATION 101

Viscosity & VI explained

02

If you only get one thing right in lubricant selection, make it viscosity. Too thin and the film collapses; too thick and you pay for it in heat and wasted energy.

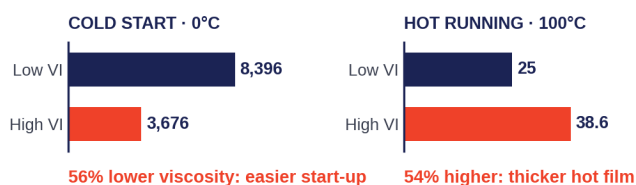
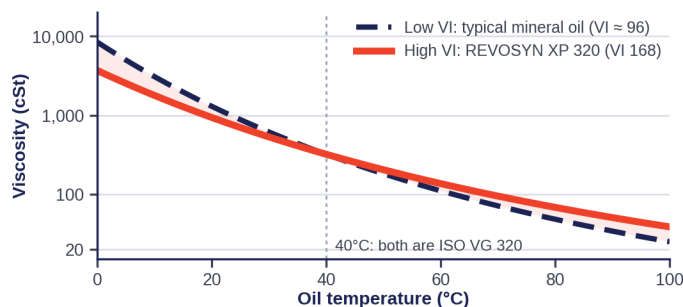
ISO VISCOSITY GRADES AND THE REVOLUTION RANGE

ISO VG	cSt @ 40°C (±10%)	REVOSYN XP	REVOCIRC	REVOCOMP	REVOPUMP	REVOCHARGE
15	13.5 – 16.5	•	—	—	—	—
22	19.8 – 24.2	•	—	—	—	—
32	28.8 – 35.2	•	•	•	•	•
46	41.4 – 50.6	•	•	•	•	•
68	61.2 – 74.8	•	•	•	•	•
100	90.0 – 110	•	•	•	•	•
150	135 – 165	•	•	•	•	—
220	198 – 242	•	•	—	—	—
320	288 – 352	•	•	—	—	—

VISCOSITY INDEX (VI): HOW MUCH OIL THINS WHEN IT GETS HOT

VI describes how much viscosity changes with temperature. A **higher VI** means the oil thins less when hot and thickens less when cold — so it holds a protective film at operating temperature and still flows at start-up.

- Mineral oils typically sit around VI 95–110. The Revolution range runs from about VI 115 to 168.
- Compare oils at the same ISO grade: the higher-VI oil keeps the thicker film at 100°C and the lower drag at 0°C.
- The grade on the drum is measured at 40°C — always think about your **operating** temperature.



ISO VG 320 example. High VI uses the REVOSYN XP 320 data-sheet values; low VI is a typical mineral oil (VI ≈ 96). Interpolated with ASTM D341.

RULE OF THUMB

Compare **cSt @ 100°C** as well as cSt @ 40°C. Two oils with the same ISO grade can behave very differently once they warm up.

BEARINGS

The kappa (κ) ratio

LUBRICATION 101

03

Kappa compares the viscosity your bearing actually sees with the viscosity it needs.

$$K = v \div v_1$$

v — actual oil viscosity at the bearing's operating temperature (cSt).

v_1 — rated (required) viscosity for the bearing's size and speed.

STEP 1 — FIND THE VISCOSITY YOUR BEARING NEEDS

dm = (bore d + outside diameter D) ÷ 2 in mm; n = speed in rpm. Approximation (ISO 281 basis):

$$n \geq 1,000 \text{ rpm} \quad v_1 \approx 4,500 \div \sqrt{(n \times dm)}$$

$$n < 1,000 \text{ rpm} \quad v_1 \approx 45,000 \div (n^{0.83} \times \sqrt{dm})$$

STEP 2 — READ THE RESULT

$K < 1$

BOUNDARY

Surfaces are in contact. High wear risk.

1 – 2

MIXED

Partial film. Use anti-wear / EP-additised oil or raise viscosity.

2 – 4

FULL FILM

Target zone. Comfortable margin, maximum bearing life.

$K > 4$

EXCESS

No extra bearing life. More drag, heat and energy loss.

WORKED EXAMPLE

Bearing with $dm = 100$ mm running at 1,500 rpm: $v_1 = 4,500 \div \sqrt{(1,500 \times 100)} \approx 11.6 \text{ mm}^2/\text{s}$.

OIL	v @ 60°C	K @ 60°C	v @ 80°C	K @ 80°C
Typical mineral ISO VG 46 (VI ≈ 100)	20.6	1.8	11.1	0.96
46-grade synthetic (VI 136)	22.1	1.9	12.4	1.07
68-grade synthetic (VI 135)	31.0	2.7	16.7	1.4

At 80°C the mineral oil drops into the boundary zone ($K < 1$) while the higher-VI synthetic just clears it into the mixed zone — one grade up (68) reaches the 2–4 target zone with real margin.

If K is below 1: run cooler (clean the cooler, check airflow, reduce load), step up one ISO grade, or choose a higher-VI oil. **Good practice:** use the temperature at the bearing — often hotter than the sump — and confirm against the OEM recommendation.

Viscosities calculated from 40°C / 100°C values (ASTM D341). Mineral figures are typical values; synthetic figures use the REVOCIRC / REVOCOMP / REVOPUMP data sheets.

CONDITION

Keep it clean, cool & dry

LUBRICATION 101

04

Most lubricant failures are caused by what gets into the oil: particles, heat and water.

CLEAN

ISO 4406

A three-number code for particles ≥ 4 , ≥ 6 and $\geq 14 \mu\text{m}$ per mL; each step doubles the count. Set a target per machine, then filter to reach it. Typical targets (confirm with the OEM):

- Critical: 15/13/10–16/14/11
- General: 17/15/12–18/16/13
- Robust: 19/17/14–20/18/15

COOL

+10°C

As a rule of thumb, oxidation rate roughly doubles for every 10°C rise (above about 60–70°C), halving oil life. Heat is a major driver of varnish and sludge.

- Keep coolers clean; check bypass valves
- Measure at the bearing or return line, not just the sump

DRY

500 ppm

A common alarm level for circulating oils (0.05%). Aim lower for critical bearings. Cloudy or milky oil means free water — always a red flag.

- Fit desiccant breathers
- Fix leaking seals and cooler tubes
- Trace condensation to its source

SAMPLING THAT TELLS THE TRUTH

01 Same point, same way

Trends matter more than any single result. Act on the direction of travel.

02 Live zone, at temperature

Sample while running (or just after shutdown) from a turbulent zone — not the sump bottom or a dead leg.

03 Flush, then fill

Flush the sample port first; use a clean, dedicated bottle every time.

04 Label and send promptly

Machine, oil, hours, date and top-up history. Water and particle results drift with time.

WHAT EACH TEST TELLS YOU

TEST	WHAT IT TELLS YOU
Viscosity @ 40°C	Wrong oil added, oxidation (thickening) or dilution (thinning).
Acid number (TAN)	Oxidation and additive depletion — a rising trend means ageing oil.
Water (Karl Fischer, ppm)	Moisture ingress; compare against your alarm limit.
Particle count (ISO 4406)	Cleanliness against target; how well filtration is working.
Elemental analysis (ICP)	Wear metals and additive levels; rising iron or copper flags wear.
Varnish potential (MPC)	Soft-contaminant and varnish risk — before it shows up as sticking valves.

Varnish or sticky valves? See the **REVOSOLV VR** data sheet. Depleted additives in otherwise sound oil? See **REVOCHARGE**.

FIELD GUIDE

Field habits & fixes

LUBRICATION 101

05

Ten small habits that prevent most lubrication problems, followed by a cheat-sheet for the symptoms you are most likely to meet on the plant floor.

TEN HABITS OF RELIABLE LUBRICATION

01 Match viscosity to temperature

Select for operating temperature, not the nameplate default. For bearings, check κ .

02 Don't mix oils casually

Even compatible oils dilute each other's performance. Drain, flush and refill where you can.

03 Fill to the mark

Overfilling churns and heats the oil; underfilling starves the film.

04 Dedicate and label

One colour-coded container, funnel and hose per oil type.

05 Filter new oil

Oil straight from the drum is often dirtier than your target. Filter it on the way in.

06 Fit desiccant breathers

Stop moisture and dust entering with every temperature cycle.

07 Store smart

Sealed, under cover, drums on their sides with bungs at 3 and 9 o'clock. First in, first out.

08 Top up with the same oil

Log every top-up — rising consumption is a leak clue.

09 Don't judge by colour

Dark oil is not always bad and clear oil is not always good. Test it.

10 Fix the cause

Repeated water, heat or contamination is a machine problem, not an oil problem.

QUICK TROUBLESHOOTING

SYMPTOM	LIKELY CAUSES	FIRST CHECKS
Oil running hot	Viscosity too high or too low; over- or under-filled; fouled cooler; misalignment or overload.	Compare bearing and sump temperature; check level, cooler performance and κ .
Milky or cloudy oil	Water ingress: seals, breather, cooler leak, condensation or wash-down.	Crackle test or Karl Fischer; inspect breather and cooler; drain free water.
Foaming	Air ingress, overfilling, contamination, depleted anti-foam, poor return-line layout.	Check for suction leaks, oil level and return-line position; test oil condition.
Dark or burnt smell	Overheating, oxidation or contamination.	Trend acid number and viscosity; find the heat source; consider a change.
Sludge, varnish, sticking valves	Oxidation by-products, hot spots, repeated cold-start cycling.	Test varnish potential (MPC); look for hot spots. See the REVOSOLV VR data sheet.
Bearing noise or vibration	Film breakdown (low κ), contamination, misalignment.	Check κ , particle count, oil level and temperature.

Reading a data sheet

06

The property table on each product page is compact, but every line tells you something practical. Here is what each one means and what to look for.

PROPERTY	WHAT IT IS	WHAT TO LOOK FOR
cSt @ 40°C (ASTM D445)	Kinematic viscosity at 40°C. Defines the ISO VG grade.	Match the grade to the OEM recommendation and your operating temperature.
cSt @ 100°C	Viscosity when hot.	Higher for a given grade means a thicker film at temperature.
Viscosity Index (ASTM D2270)	How much viscosity changes with temperature.	Higher is better; above about 120 is considered high.
Flash Point (ASTM D92)	Lowest temperature at which vapours ignite.	A safety and volatility guide — keep well above operating temperature. Not a service limit.
Pour Point (ASTM D97)	Lowest temperature at which the oil still flows.	Keep at least 10°C below your coldest start-up temperature.
Specific Gravity	Density relative to water.	Converts litres to kilograms — a 208 L drum at 0.86 weighs about 179 kg.
D-130 Copper Corrosion	Effect on a copper strip (3 hrs and 250 hrs at 210°F).	1A is the best rating. Matters for bronze cages and copper coolers.
D-665 Rust Test	Steel rod in oil mixed with fresh or salt water.	PASS means no rust formed.
D-892 Foam Sequence II	How much foam forms, and how long it lasts.	0 means no foam formed; lower is better.

THREE-SECOND SANITY CHECKS

- Is the pour point well below your coldest start?
- Is the flash point well above your hottest surface?
- Are you comparing like with like — same test method, same temperature?

NOT ON THE SHEET

- OEM approvals and equipment builder recommendations.
- Seal and paint compatibility.
- Compatibility with the oil already in the system.

NEXT

Turn the page for a glossary of terms and quick conversions, then the full data sheets for every product in the range.

REFERENCE

Glossary & quick reference

LUBRICATION 101

07

The terms, symbols and units that come up across this guide and the data sheets that follow, in one place.

TERMS & ACRONYMS

TERM	MEANING	TERM	MEANING
ISO VG	Viscosity grade; classifies oil by viscosity at 40°C.	TAN	Total Acid Number; tracks oxidation and additive depletion.
VI	Viscosity Index; how much viscosity changes with temperature.	ppm	Parts per million; used for water content limits.
cSt	Centistokes (mm ² /s); unit of kinematic viscosity.	ICP	Inductively Coupled Plasma; measures wear metals and additives.
κ (kappa)	Viscosity ratio: actual viscosity ÷ rated viscosity for a bearing.	MPC	Membrane Patch Colorimetry; measures varnish potential.
ν (nu)	Actual kinematic viscosity at the bearing's operating temperature.	ISO 4406	Cleanliness code for particle counts in oil.
ν ₁	Rated (required) viscosity for a bearing's size and speed.	Karl Fischer	Test method for water content.
dm	Bearing mean diameter: (bore + outside diameter) ÷ 2.	ASTM	Standards body behind the D-number test methods on each data sheet.
PAO	Polyalphaolefin; a synthetic base oil.	EP	Extreme pressure; an additive package for heavy loads.
Ester	A synthetic base oil valued for film strength and solvency.	SG	Specific Gravity; density relative to water.

QUICK CONVERSIONS

QUANTITY	CONVERSION
Temperature: °C → °F	°F = (°C × 9/5) + 32
Weight: kilograms → pounds	1 kg = 2.205 lb
Volume: litres → US gallons	1 L = 0.2642 US gal
Volume: litres → Imperial gallons	1 L = 0.2200 imp gal
Pressure: bar → psi	1 bar = 14.50 psi
Drum weight	kg = litres × specific gravity (e.g. 208 L at SG 0.86 ≈ 179 kg)

NEXT

Turn the page for the full data sheets: *REVOSYN XP* · *REVOCIRC* · *REVOCOMP* · *REVOPUMP* · *REVOSOLV VR* · *REVOCHARGE*

ULTRA - PERFORMANCE

REVOSYN XP™

Synthetic Circulating Oil

VISCOSITY GRADES

15 – 320

REVOSYN XP™ is a premium, ultra-performance fully synthetic lubricating oil formulated exclusively with PAO and ester base oil as well as proprietary additives and is intended for use in gas and steam turbines, compressors, pumps, bearings, and gears.

Engineered for high-temperature and demanding applications, REVOSYN XP™ combines advanced additive chemistry with cutting-edge base oil technology to enhance equipment reliability and extend service life. Our proprietary additive system is designed to optimize performance, reducing energy consumption while ensuring smoother, more efficient operation.

With superior thermal stability and oxidation resistance, REVOSYN XP™ significantly increases the mean time between planned and unplanned maintenance, making it the ideal replacement for conventional oils that rely solely on viscosity for protection in high-temperature environments.

PERFORMANCE ADVANTAGES

- High Film Strength
- Rapidly Separates from Water
- Saves Energy
- Extremely Clean
- Reduces Bearing Vibrations
- Longer Oil Life
- Excellent Corrosion Protection
- Synthetic Solvency
- Compatible with Other Oils
- Fluorescent Under UV Light

TECHNICAL DATA

REVOSYN XP GRADE	15	22	32	46	68	100	150	220	320
VISCOSITY									
cSt @ 40°C	15	22	32	46	68	100	150	220	320
cSt @ 100°C	3.5	4.5	5.8	7.8	10.2	13.7	18.6	26.8	38.6
Viscosity Index	115	134	134	136	135	138	140	168	168
PHYSICAL PROPERTIES									
Flash Point (°C)	220	246	246	260	266	270	275	275	275
Pour Point (°C)	-59	-53	-47	-38	-38	-30	-30	-30	-30
Specific Gravity	0.825	0.83	0.85	0.855	0.858	0.857	0.864	0.872	0.880
D-130 COPPER CORROSION									
3 hrs. @ 210°F	1A	1A	1A	1A	1A	1A	1A	1A	1A
250 hrs. @ 210°F	1A	1A	1A	1A	1A	1A	1A	1A	1A
D-665 RUST TEST									
Fresh Water	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Salt Water	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

HIGH - PERFORMANCE

REVOCIRC™

Synthetic Circulating Oil

VISCOSITY GRADES

32 – 320

REVOCIRC™ is a high-performance synthetic lubricant developed for use in circulation systems, bearings, turbines, and gearboxes that do not require EP additives.

REVOCIRC™ has been developed to work in high-temperature and demanding applications and incorporates advanced additive and base oil technology that greatly improves equipment reliability and service life.

REVOCIRC™ greatly reduces energy consumption and will increase the mean time between planned/unplanned maintenance / repair and is an ideal replacement for oils that rely on oil viscosity alone for protection.

PERFORMANCE ADVANTAGES

- High Film Strength
- Rapidly Separates from Water
- Saves Energy
- Reduces Vibrations
- Longer Oil Life
- Excellent Rust Protection
- Synthetic Solvency
- Compatible with Other Oils

RECOMMENDED APPLICATIONS

REVOCIRC 32 – 100	Bearings, Turbines, Journals, Gearboxes (non-EP oil), Machine Shop Equipment.
REVOCIRC 150 – 320	Bearings, Spur / Bevel Gears (non-EP oil), Wet / Dry End Mill Rolls.

TECHNICAL DATA

REVOCIRC GRADE	32	46	68	100	150	220	320
VISCOSITY							
cSt @ 40°C	32	46	68	100	150	220	320
cSt @ 100°C	5.8	7.8	10.2	13.7	18.6	26.8	38.6
Viscosity Index	134	136	135	138	140	135	135
PHYSICAL PROPERTIES							
Flash Point (°C)	246	260	266	270	275	275	275
Pour Point (°C)	-17	-16	-15	-16	-12	-12	-11
Specific Gravity	0.855	0.858	0.860	0.861	0.864	0.872	0.880
D-130 COPPER CORROSION							
3 hrs. @ 210°F	1A	1A	1A	1A	1A	1A	1A
250 hrs. @ 210°F	1A	1A	1A	1A	1A	1A	1A
D-665 RUST TEST							
Fresh Water	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Salt Water	PASS	PASS	PASS	PASS	PASS	PASS	PASS

HIGH - PERFORMANCE

REVOCOMP™

Synthetic Compressor Oil

VISCOSITY GRADES

32 – 150

REVOCOMP™ is a premium, high-performance synthetic lubricant designed to enhance the reliability and efficiency of rotary screw, lobe, and vane compressors. Engineered for demanding, high-temperature applications, **REVOCOMP™** incorporates advanced base oil and additive technology to significantly improve compressor durability and service life.

By reducing wear, oxidation, and deposit formation, **REVOCOMP™** ensures smoother operation, minimizes downtime, and extends maintenance intervals. Its superior thermal stability prevents viscosity breakdown, providing consistent protection even under extreme conditions. Additionally, **REVOCOMP™** optimizes compressor performance by lowering operating temperatures and reducing energy consumption.

For compressors operating at high temperatures or under heavy loads, **REVOCOMP™** is the ideal upgrade from conventional lubricants that rely solely on viscosity for protection.

PERFORMANCE ADVANTAGES

- High Film Strength
- Rapidly Separates from Water
- Reduces Energy Consumption
- Extremely Clean
- Reduces Vibrations
- Longer Oil Life
- Excellent Corrosion Protection
- Synthetic Solvency
- Compatible with Other Oils

TECHNICAL DATA

REVOCOMP GRADE	32	46	68	100	150
VISCOSITY					
cSt @ 40°C	32	46	68	100	150
cSt @ 100°C	5.8	7.8	10.2	13.7	18.6
Viscosity Index	134	136	135	138	140
PHYSICAL PROPERTIES					
Flash Point (°C)	246	260	266	270	275
Pour Point (°C)	-47	-38	-38	-30	-30
Specific Gravity	0.85	0.855	0.858	0.857	0.864
D-130 COPPER CORROSION					
3 hrs. @ 210°F	1A	1A	1A	1A	1A
250 hrs. @ 210°F	1A	1A	1A	1A	1A
D-665 RUST TEST					
Fresh Water	PASS	PASS	PASS	PASS	PASS
Salt Water	PASS	PASS	PASS	PASS	PASS

ANSI / API PUMP OIL

REVOPUMP™

Synthetic Oil for Centrifugal Pumps

VISCOSITY GRADES

32 – 150

REVOPUMP™ is a high-performance synthetic oil engineered for use in all types and configurations of ANSI and API centrifugal pumps.

Designed to outperform both mineral and synthetic competitors, REVOPUMP™ significantly lowers bearing and gearbox (API OH6) operating temperatures while delivering exceptional protection in high-temperature conditions, where mixed or boundary lubrication is most critical. Our proprietary additive technology minimizes bearing wear and oil oxidation, extending service life and enhancing efficiency.

By reducing mechanical losses, REVOPUMP™ lowers energy consumption and increases the mean-time between planned and unplanned maintenance. It is the ideal upgrade from conventional lubricants that rely solely on viscosity for protection.

PERFORMANCE ADVANTAGES

- High Film Strength
- Rapidly Separates from Water
- Saves Energy
- Extremely Clean
- Reduces Bearing Vibrations
- Longer Oil Life
- Excellent Corrosion Protection
- Synthetic Solvency
- Compatible with Seals
- Compatible with Other Oils
- Minimizes Mechanical Losses

TECHNICAL DATA

REVOPUMP GRADE	32	46	68	100	150
VISCOSITY					
cSt @ 40°C	32	46	68	100	150
cSt @ 100°C	5.8	7.8	10.2	13.7	18.6
Viscosity Index	134	136	135	138	140
PHYSICAL PROPERTIES					
Flash Point (°C)	246	260	266	270	275
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3 hrs. @ 210°F	1A	1A	1A	1A	1A
250 hrs. @ 210°F	1A	1A	1A	1A	1A
D-665 RUST TEST					
Fresh Water	PASS	PASS	PASS	PASS	PASS
Salt Water	PASS	PASS	PASS	PASS	PASS

NOTE

For high bulk oil temperatures exceeding 100°C or when extra-long life is desirable use REVOSYN XP.

SOLUBILITY ENHANCER

REVOSOLV™ VR

Varnish and Deposit Control

TREAT RATE

5 – 10%

REVOSOLV™ VR is a highly effective solubility enhancer engineered to extend oil service life by reducing the potential for varnish and deposit formation.

It efficiently dissolves oxidized by-products, including varnish and deposits, from internal surfaces of critical equipment such as oil circulation systems, compressors, gearboxes, and hydraulic systems.

REVOSOLV™ VR also offers a practical alternative to labor-intensive mechanical cleaning. It is easily introduced into the existing oil prior to equipment shutdown, streamlining the maintenance process.

PERFORMANCE ADVANTAGES

- Dissolves Unwanted Deposits
- Prevents Varnish Formation
- Enhances Equipment Reliability
- Reduces Maintenance Effort
- Seamless Integration
- Compatible with System Materials
- Improves Heat Transfer Efficiency
- Cost-Effective Solution
- Environmentally Responsible

USAGE INSTRUCTIONS

- **Dosage:** Add **REVOSOLV™ VR** to the in-service oil at a **treat rate of 10%**.
- **Cleaning Duration:** Allow **7 to 14 days** of operation, depending on the severity of contamination.
- For less severe cases, a **5% treat rate** may be applied, with a proportionally extended cleaning period.

CAUTION

Carefully monitor filters during cleaning to make sure they do not get blocked and stop/restrict oil flow. Additional filtration capacity is desirable during cleaning as existing filters may not have sufficient capacity to deal with the increased volume of deposits.

TECHNICAL DATA

POUR POINT (°C)	FLASH POINT (°C)	BOILING POINT (°C)	AUTOIGNITION (°C)	SPECIFIC GRAVITY
-45	257	315	245	0.94

LUBRICANT ADDITIVE

REVOCHARGE™

Replenishment

TREAT RATE
10 – 15%

REVOCHARGE™ is an exclusive proprietary additive system designed to replenish depleted additives in in-service lubricants. It is ideal for rotating equipment operating under thermal or oxidative stress where lubricant performance is declining, but a full fluid replacement is not immediately necessary or practical.

Formulated to restore key chemical functions, **REVOCHARGE** boosts:

- **Oxidation resistance**
- **Film Strength**
- **Anti-wear and corrosion protection**
- **Demulsibility**

By restoring these additive functions, **REVOCHARGE** helps extend the operational life of the oil, slow down degradation processes, and maintain lubricant film integrity under load.

It also aids in solubilizing soft deposits such as sludge and varnish precursors, improving system cleanliness, heat transfer and flow characteristics without the need for a flush.

PERFORMANCE ADVANTAGES

- Increases Oil Film-Strength
- Increases Rust & Corrosion Protection
- Extends Oil Life
- Improves Heat Transfer
- Dissolves Unwanted Deposits
- Replenishes Lost Additives
- Reduces Vibrations
- Compatible with Other Oils
- Environmentally Responsible

For best results, **REVOCHARGE** is added to existing lubricants at a **10%–15% treat rate**, depending on application and condition monitoring results.

TECHNICAL DATA

REVOCHARGE GRADE	32	46	68	100
VISCOSITY				
cSt @ 40°C	32	46	68	100
PHYSICAL PROPERTIES				
Flash Point (°C)	246	260	266	270
D-892 FOAM SEQUENCE II	0/0/0	0/0/0	0/0/0	0/0/0
D-130 COPPER CORROSION				
3 hrs. @ 210°F	1A	1A	1A	1A
D-665 RUST TEST				
Fresh Water	PASS	PASS	PASS	PASS
Salt Water	PASS	PASS	PASS	PASS

UNPARALLELED LUBRICATION PERFORMANCE™

Reliability starts with the oil.

Longer oil life. Fewer breakdowns. More uptime.