

ALLURE
CIRCUIT



University neighborhood,
Civan Alley, No:1, Allure
tower, unit:384
Avcilar/Istanbul



8920539573



Churchill Executive
Tower, Business Bay,
Dubai, UAE

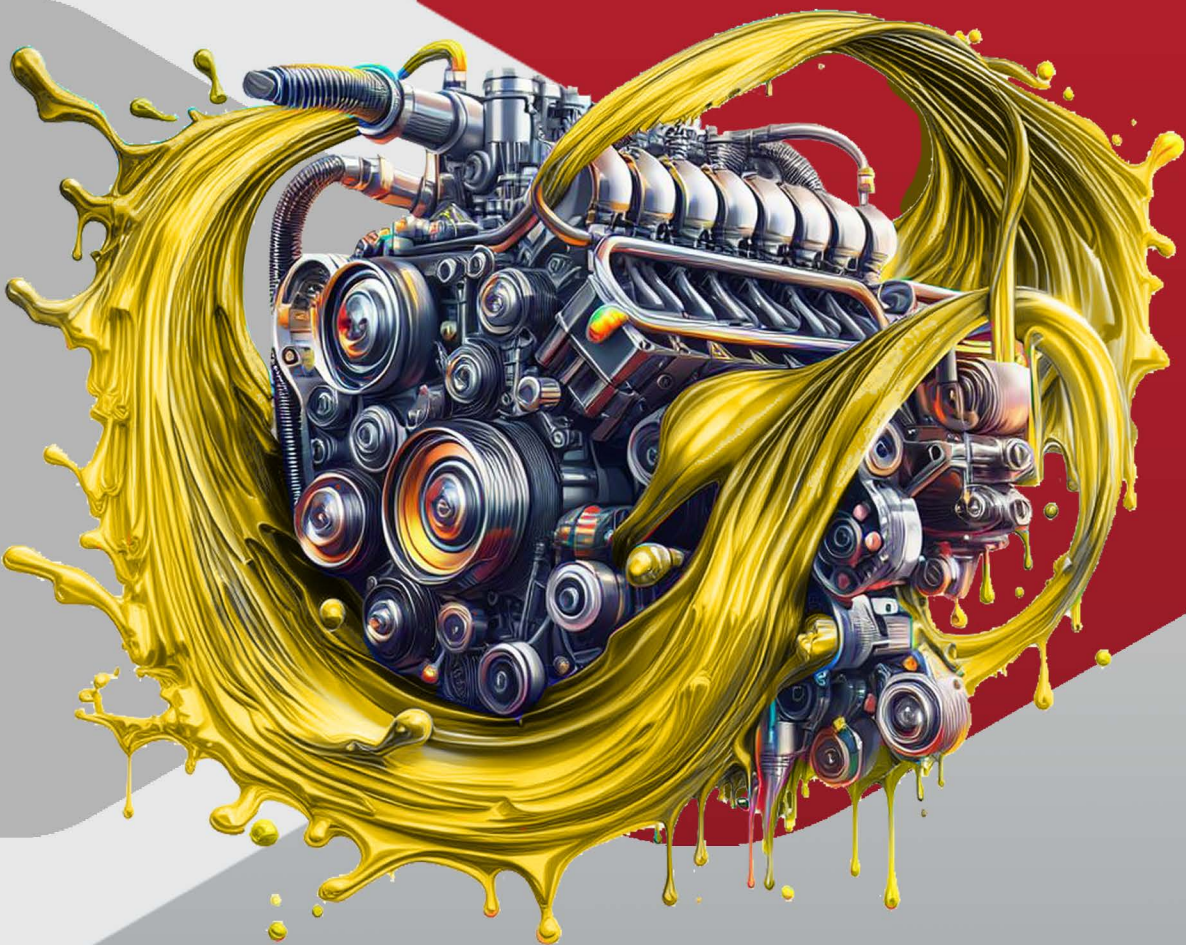


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Carlio

INDUSTRIAL PRODUCTION GROUP

THE MEANING OF PRODUCTION IN PETROFORCE IS THE CREATION, DEVELOPMENT, AND THE PATH TO PROGRESS, AND THE STARTING POINT TO ACHIEVE THE GOALS THAT WE ALL HAVE. THE PETROFORCE BRAND, WITH OVER 20 YEARS OF EXPERIENCE IN THE OIL AND PETROCHEMICAL INDUSTRY, WE OFFICIALLY STARTED OUR ACTIVITIES IN THE FIELD OF DESIGN, ENGINEERING, CONSTRUCTION OF REFINERY EQUIPMENT, AND THE PRODUCTION OF VARIOUS MOTOR AND INDUSTRIAL LUBRICANTS IN THE YEAR 1390 (2011).

OUR COMMITMENT TO THE PRODUCTION AND PRESENTATION OF QUALITY PRODUCTS HAS BEEN THE BEGINNING OF OUR ACTIVITIES. THIS COMMITMENT, OVER THE YEARS, HAS LED US TO UNPARALLELED EXPERIENCES IN THE PRODUCTION AND MANUFACTURING OF PRODUCTS IN ACCORDANCE WITH INTERNATIONAL STANDARDS. PRODUCTION AND INDUSTRIAL INFRASTRUCTURE IN ANY COUNTRY ARE CONSIDERED INDICATORS OF DEVELOPMENT, LEADING TO EMPLOYMENT AND, CONSEQUENTLY, SOCIAL WELFARE. OUR ACTIVITIES IN THE OIL AND PETROCHEMICAL SECTOR, ENGINEERING, CONSTRUCTION, AND PRODUCTION OF LUBRICANTS DATE BACK TO 25 YEARS AGO.

AN ACTIVITY THAT CONTINUES TO GROW AND DEVELOP THROUGH THE DESIGN AND IMPLEMENTATION OF VARIOUS PROJECTS, AS WELL AS THE PRODUCTION OF QUALITY PRODUCTS AND INCREASING THE SALES OF PRODUCTS IN DOMESTIC AND INTERNATIONAL MARKETS. THE PRODUCTION OF SPECIAL INDUSTRIAL OILS TO MEET THE NEEDS OF VARIOUS MINES, ROAD CONSTRUCTION COMPANIES, LARGE INDUSTRIAL FACTORIES, AS WELL AS GASOLINE AND DIESEL ENGINE OILS FOR THE DOMESTIC MARKET, IS ANOTHER SIGNIFICANT PART OF PETROFORCE'S ACTIVITIES.

EXPORTING PRODUCTS TO MORE THAN 20 COUNTRIES WITH INTERNATIONAL STANDARDS AND INTRODUCING OUR PRODUCTS IN INTERNATIONAL MARKETS HAVE BEEN ACHIEVEMENTS OF THIS COMPANY OVER THE YEARS. PETROFORCE WITH THE PASSAGE OF ALL THESE YEARS OF UPS AND DOWNS, HAS ALWAYS HAD A SPECIAL FOCUS ON QUALITY PRODUCTION, AND THIS HAS BEEN THE SECRET OF OUR LONGEVITY OVER THE YEARS.

IN THE PURSUIT OF PROGRESS IN VARIOUS FIELDS, WE HAVE ALWAYS HAD AN INNOVATIVE LOOK AT THE DETAILS AND, WITH THE USE OF MODERN METHODS, ADHERENCE TO GLOBAL STANDARDS, AND WITH THE EFFORT AND COLLABORATION, WE HAVE PAVED THE PATH OF DEVELOPMENT. AND NOW, WITH THE SUPPORT OF EXPERIENCE, EXPERTISE, HOPE FOR THE FUTURE, A DEVELOPMENT-ORIENTED PERSPECTIVE, AND A MIND FULL OF IDEAS DERIVED FROM TWO DECADES OF SINCERE EFFORTS, WE HAVE SPECIAL PLANS FOR THE FUTURE OF PETROFORCE. WE INTEND, WITH THE HELP OF GOD, TO TAKE A COMPANY STEP IN THE DEVELOPMENT OF THE LUBRICANT INDUSTRY FOR OUR BELOVED COUNTRY IN THE NOT-TOO-DISTANT FUTURE.





Better precicisn



Sheers that help better handling of the gallon while pouring



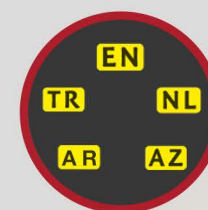
Lubricant type, here we indicate the lubricant type and vsege



API: user can find the APF standard of lubricant



SAE of the lubricant which guide the uset for theviscosity of the lubricant



Brith explaintion of the production in 5 languages



Blend type of lubricant accodring t the raw material



All apporals and certification

Our products are all certified and appored by petroforce group in Belgium



Made in barcode which indicates the orgin of the product



TECHNICAL DATA
Chemical analysis

TEST	METHOD	UNIT	SN 5W30	SN 5W40	SN 10W40
DENSITY @ 15°C	D4052	kg/m³	860 (±10)	860 (±10)	870 (±10)
FLASH POINT	D92	°C	205 (±5)	210 (±5)	210 (±5)
POUR POINT	D97	°C	-36 (±3)	-36 (±3)	-33 (±3)
VISCOSITY @ 100°C	D445	cSt	11.5 (±0.5)	15.5 (±0.5)	15.5 (±0.5)
VISCOSITY INDEX	D2270	---	140 (±5)	140 (±5)	135 (±5)
TBN	D2896	mg KOH/g	8 (±0.5)	8 (±0.5)	8 (±0.5)
NOACK	D5800	°C	13 (±2)	12 (±3)	12 (±3)

CRLIO 4-SEASON GASOLINE ENGINE OIL, WITH ITS HIGHLY ADVANCED FORMULA AND A COMBINATION OF THE FINEST BASE OILS AND ADDITIVES IN VARIOUS GRADES, IS PRODUCED FOR VARIOUS GASOLINE-POWERED VEHICLES, FROM CLASSIC TO MODERN. THE LONG LIFE OF THE OIL AND PROTECTION OF ENGINE COMPONENTS ARE WHAT YOU EXPECT FROM A HIGH-QUALITY ENGINE OIL

CRLIO **SN5W30** ENGINE OIL IS SUITABLE FOR ALL WEATHER CONDITIONS, PROVIDING PROTECTION FOR YOUR CAR'S ENGINE UNDER TOUGH CONDITIONS

A MULTI-PURPOSE ENGINE OIL WITH HIGH QUALITY AS **SN5W40** AND ADVANCED FORMULATION COMPARED TO REGULAR**SM** OIL, DESIGNED FOR USE IN VEHICLES DESIGNED FROM 2018 ONWARDS. THIS OIL IS FORMULATED FOR COLDER WEATHER CONDITIONS

- **Features:**
 - VIRGIN BASE OIL
 - TEMPERATURES
 - EXCELLENT LUBRICATION
 - HIGH CLEANING POWER
 - ADEQUATE RESISTANCE AGAINST OXIDATION
 - PROTECTION OF COMPONENTS AGAINST ABRASION
 - HIGH THERMAL STABILITY AND RESISTANCE TO ENGINE WEAR IN HIGH

A MULTI-PURPOSE ENGINE OIL WITH A HIGH QUALITY LEVEL AS **SN10W40** AND A MORE ADVANCED FORMULATION COMPARED TO **SL** REGULAR OIL DESIGNED FOR USE IN VEHICLES MANUFACTURED BETWEEN 2016 AND 2022. THESE OILS ARE FORMULATED FOR WARMER CLIMATES

- **Features:**
 - VIRGIN BASE OIL
 - SUITABLE LUBRICATION
 - RESISTANCE AGAINST FUEL DEPOSITS
 - ADEQUATE RESISTANCE AGAINST OXIDATION
 - PROTECTION OF COMPONENTS AGAINST WEAR AND PREVENTION OF DEPOSITS

ENGINE OIL
SN5W30



ENGINE OIL
SN5W40



ENGINE OIL
SN10W40



ENGINE OIL
SM5W30



PETROFORCE 4-SEASON GASOLINE ENGINE OIL, WITH ITS HIGHLY ADVANCED FORMULA AND A COMBINATION OF THE FINEST BASE OILS AND ADDITIVES IN VARIOUS GRADES, IS PRODUCED FOR VARIOUS GASOLINE-POWERED VEHICLES, FROM CLASSIC TO MODERN. THE LONG LIFE OF THE OIL AND PROTECTION OF ENGINE COMPONENTS ARE WHAT YOU EXPECT FROM A HIGH-QUALITY ENGINE OIL. WE ARE AWARE OF THIS AND GIVE IT THE

ENGINE OIL
SM5W40

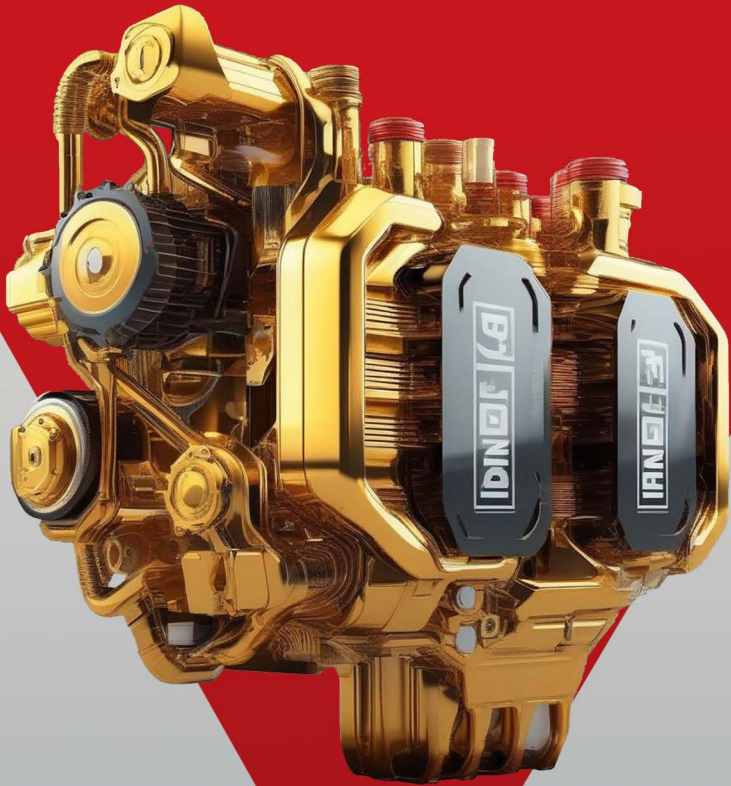


THIS OIL IS SEMI-SYNTHETIC AND FORMULATED FOR MODERN VEHICLES FROM 2017 ONWARDS. FEATURES OF THIS PRODUCT INCLUDE ENGINE COMPONENT PROTECTION, PREVENTION OF WEAR, RESISTANCE AGAINST DEPOSITS, AND GUARANTEED PERFORMANCE IN CHALLENGING WORKING CONDITIONS. THE QUALITY ADDITIVES USED IN THIS PRODUCT CAN CONTRIBUTE TO EXCELLENT PERFORMANCE IN CONSUMERS' CAR ENGINES. THE LONG LIFE OF THE OIL AND PROTECTION OF ENGINE COMPONENTS ARE EXPECTATIONS

ENGINE OIL
SM10W40



THIS MULTI-PURPOSE ENGINE OIL IS RECOMMENDED FOR VEHICLES FROM 2012 AND ONWARD. IT IS NOTEWORTHY THAT THIS PRODUCT IS FORMULATED AND PRODUCED FOR WARMER WEATHER CONDITIONS. IT IS SUITABLE FOR VEHICLES WITH CHALLENGING OPERATIONS AND TOUGH WORKING CONDITIONS. IT FEATURES A MORE ADVANCED FORMULA COMPARED TO STANDARD QUALITY AS **SL** LEVELS



A MULTI-PURPOSE ENGINE OIL WITH A HIGH-QUALITY LEVEL AS **SL/CF** MORE ADVANCED FORMULA THAN **SJ** REGULAR OILS, DESIGNED FOR USE IN VEHICLES DESIGNED FROM 2004 ONWARDS. THIS OIL IS FORMULATED FOR COLDER WEATHER CONDITIONS

- **Features :**
- VIRGIN BASE OIL
 - HIGH CLEANING POWER
 - EXCELLENT LUBRICATION
 - RESISTANCE AGAINST FUEL DEPOSITS
 - ADEQUATE RESISTANCE AGAINST OXIDATION
 - PROTECTION OF COMPONENTS AGAINST WEAR
 - HIGH THERMAL STABILITY IN HIGH TEMPERATURES
 - SAFE ENGINE COMBUSTION IN CHALLENGING CONDITIONS

ENGINE OIL SUITABLE FOR VARIOUS DOMESTICALLY MANUFACTURED VEHICLES, DESIGNED TO PERFORM WELL UNDER THE COUNTRY'S WEATHER CONDITIONS. IT HAS OBTAINED INTERNATIONAL CERTIFICATIONS AND VARIOUS APPROVALS FROM RELEVANT ORGANIZATIONS FOR VALUABLE CONSUMER VEHICLES. THIS OIL IS SPECIFICALLY FORMULATED FOR COLDER WEATHER CONDITIONS

THIS MULTI-PURPOSE ENGINE OIL IS RECOMMENDED FOR VEHICLES MANUFACTURED FROM 2012 ONWARDS. IT IS NOTEWORTHY THAT THIS PRODUCT IS FORMULATED AND PRODUCED FOR WARMER WEATHER CONDITIONS. SUITABLE FOR VEHICLES WITH CHALLENGING USAGE AND HARSH WORKING CONDITIONS, IT FEATURES AN ADVANCED FORMULA COMPARED TO STANDARD QUALITY LEVELS

ENGINE OIL
SL10W40



ENGINE OIL
SL15W40



ENGINE OIL
SJ20W50



TECHNICAL DATA
Chemical analysis

TEST	METHOD	UNIT	SM 5W30	SM 5W40	SM 10W40
DENSITY @ 15°C	D4052	kg/m³	880 (±10)	880 (±10)	870 (±10)
FLASH POINT	D92	°C	210 (±5)	210 (±5)	210 (±5)
POUR POINT	D97	°C	-36 (±3)	-36 (±3)	-33 (±3)
VISCOSITY @ 100°C	D445	cSt	11.5 (±0.5)	15.5 (±0.5)	15.5 (±0.5)
VISCOSITY INDEX	D2270	---	145 (±5)	140 (±5)	140 (±5)
TBN	D2896	mg KOH/g	7.5 (±0.5)	7.5 (±0.5)	7.5 (±0.5)
NOACK	D5800	°C	13 (±2)	12 (±2)	13 (±2)

TECHNICAL DATA
Chemical analysis

TEST	METHOD	UNIT	SL/CF 10W40	SL/CF 15W40	SL/CF 20W50
DENSITY @ 15°C	D4052	kg/m³	875 (±5)	885 (±5)	880 (±5)
FLASH POINT	D92	°C	210 (±5)	205 (±5)	225 (±5)
POUR POINT	D97	°C	-33 (±3)	-27 (±2)	-30 (±3)
VISCOSITY @ 100°C	D445	cSt	15.5 (±0.3)	15.2 (±0.3)	19.3 (±0.3)
VISCOSITY INDEX	D2270	---	130 (±5)	135 (±5)	130 (±5)
TBN	D2896	mg KOH/g	7 (±0.5)	7 (±0.5)	7 (±0.5)
NOACK	D5800	°C	12 (±3)	13 (±2)	8 (±2)



CI4+

20W50
15W40
10W40

PETROFORCE DIESEL ENGINE OIL, DESIGNED SPECIFICALLY FOR MINING MACHINERY, IS PRODUCED USING A BLEND OF THE FINEST BASE OILS AND ADDITIVES ACROSS VARIOUS GRADES. POSITIONED AS A NEW AND RELIABLE SOLUTION, IT IS RECOMMENDED FOR REDUCING PRODUCTION COSTS AND INCREASING THE EFFICIENCY OF MINING EQUIPMENT

THIS ADVANCED FORMULATION OF ENGINE OIL NOT ONLY ENSURES SMOOTH LUBRICATION BUT ALSO PROVIDES RESISTANCE TO THE ENGINE AGAINST HIGH TEMPERATURES AND DAMAGES RESULTING FROM DEMANDING AND HEAVY-DUTY OPERATIONS. FURTHERMORE, OWING TO ITS EXCEPTIONAL VISCOSITY STABILITY, IT OFFERS A LIFESPAN THAT IS AT LEAST DOUBLE THAT OF THE REGULAR GRADE WHEN SUBJECTED TO SIMILAR CONDITIONS

THIS OIL IS SPECIFICALLY DESIGNED FOR MACHINERY AND EQUIPMENT IN THE MINING INDUSTRY THAT OPERATE UNDER EXTREMELY HEAVY PRESSURE. IT OFFERS SIGNIFICANTLY GREATER STABILITY COMPARED TO REGULAR OILS, RESULTING IN A LONGER LIFESPAN. IT EFFECTIVELY PREVENTS ENGINE DAMAGE AND WEAR, MAKING IT WELLSUITED FOR HEAVY-DUTY MINING OPERATIONS

● Features :

- VIRGIN BASE OIL
- EXCELLENT LUBRICATION
- HIGH CLEANING POWER
- EXTREMELY HIGH THERMAL STABILITY
- PREVENTION OF CORROSION AND DEPOSITS
- ADEQUATE RESISTANCE AGAINST OXIDATION
- PROTECTION OF COMPONENTS AGAINST WEAR
- VERY HIGH AND CONTROLLED VISCOSITY STABILITY
- MUCH LONGER LIFESPAN COMPARED TO REGULAR OIL SAMPLES
- HIGH THERMAL STABILITY AND RESISTANCE TO ENGINE WEAR IN HIGH TEMPERATURES

TECHNICAL DATA
Chemical analysis

TEST	METHOD	UNIT	CI-4+ 10W40	CI-4+ 15W40	CI-4+ 20W50
DENSITY @ 15°C	D4052	kg/m³	885 (±5)	885 (±5)	885 (±5)
FLASH POINT	D92	°C	215 (±5)	220 (±5)	225 (±5)
POUR POINT	D97	°C	-33 (±3)	-27 (±3)	-33 (±3)
VISCOSITY @ 100°C	D445	cSt	15.2 (±0.3)	15.5 (±0.3)	19.5 (±0.3)
VISCOSITY INDEX	D2270	---	160 (±5)	150 (±5)	155 (±5)
TBN	D2896	mg KOH/g	11 (±0.5)	11 (±0.5)	11 (±0.5)
NOACK	D5800	°C	12 (±3)	12 (±3)	8 (±2)



THIS ADVANCED-FORMULA OIL IS RECOMMENDED FOR HIGH-SPEED FOUR-STROKE DIESEL VEHICLES WITH ENGINES DESIGNED IN 2002 AND LATER, EQUIPPED WITH EMISSION CONTROL SYSTEMS, OPERATING UNDER TOUGH OPERATIONAL CONDITIONS. ADDITIONALLY, THIS OIL CAN SERVE AS A SUBSTITUTE FOR **CD, CE, CF-4, CG-4** CONVENTIONAL OILS. IN DEMANDING OPERATIONAL CONDITIONS, THIS PRODUCT DEMONSTRATES EXCELLENT PERFORMANCE, ENSURING STABLE OIL PRESSURE **CCS** THROUGHOUT ITS LIFESPAN.

- **Features :**
- VIRGIN BASE OIL
 - RESISTANT TO DEPOSIT FORMATION
 - EXCELLENT RESISTANCE TO OXIDATION
 - EXCELLENT PERFORMANCE AT DIFFERENT TEMPERATURES
 - OUTSTANDING PERFORMANCE IN TOUGH WORKING CONDITIONS



THIS OIL, WITH ITS ADVANCED FORMULATION AND HIGH-QUALITY ADDITIVES, NOT ONLY PROVIDES EXCELLENT LUBRICATION FOR DIESEL ENGINES BUT ALSO PROTECTS EACH ENGINE COMPONENT. IT IS RECOMMENDED FOR USE IN FOUR-STROKE DIESEL ENGINES, MODEL YEAR 1998 AND NEWER, THAT OPERATE AT HIGH SPEEDS AND RPMs.

- **Features :**
- VIRGIN BASE OIL
 - HIGH CLEANING POWER
 - ANTI-CORROSION AND ANTI-RUST PROPERTIES
 - PROTECTION OF ENGINE COMPONENTS AGAINST WEAR
 - PERFORMANCE CAPABILITY IN A WIDE RANGE OF TEMPERATURES
 - HIGH POWER IN CONTROLLING SMOKE AND PARTICLES RESULTING FROM COMBUSTION
 - EXCELLENT STABILITY AGAINST VISCOSITY REDUCTION DURING PROLONGED OPERATIONS
 - EXCELLENT RESISTANCE TO OXIDATION IN HIGH-TEMPERATURE CONDITIONS RESULTING IN REDUCED DEPOSIT AND SLUDGE FORMATION



TECHNICAL DATA
Chemical analysis

TEST	METHOD	UNIT	CI-4 10W40	CI-4 15W40	CI-4 20W50
DENSITY @ 15°C	D4052	kg/m³	885 (±5)	885 (±5)	885 (±5)
FLASH POINT	D92	°C	215 (±5)	220 (±5)	225 (±5)
POUR POINT	D97	°C	-33 (±3)	-27 (±3)	-33 (±3)
VISCOSITY @ 100°C	D445	cSt	15.2 (±0.3)	15.5 (±0.3)	19.5 (±0.3)
VISCOSITY INDEX	D2270	---	160 (±5)	130 (±5)	130 (±5)
TBN	D2896	mg KOH/g	11 (±0.5)	11 (±0.5)	11 (±0.5)
NOACK	D5800	°C	12 (±3)	12 (±3)	8 (±2)

TECHNICAL DATA
Chemical analysis

TEST	METHOD	UNIT	CH-4 10W40	CH-4 15W40	CH-4 20W50
DENSITY @ 15°C	D4052	kg/m³	870 (±5)	875 (±5)	885 (±5)
FLASH POINT	D92	°C	210 (±5)	210 (±5)	230 (±5)
POUR POINT	D97	°C	-36 (±3)	-30 (±3)	-30 (±3)
VISCOSITY @ 100°C	D445	cSt	15.5 (±0.3)	15.5 (±0.3)	19.5 (±0.3)
VISCOSITY INDEX	D2270	---	140 (±5)	140 (±5)	130 (±5)
TBN	D2896	mg KOH/g	10 (±0.5)	10 (±0.5)	10 (±0.5)
NOACK	D5800	°C	13 (±2)	13 (±2)	9 (±0.5)

CD
40
50
20W50

CF
40
50
10W40
15W40
20W50

PETROFORCE DIESEL ENGINE OILS ARE PRODUCED IN VARIOUS GRADES USING A COMBINATION OF HIGH-QUALITY VIRGIN BASE OILS AND ADDITIVES. THEY ARE RECOMMENDED FOR A WIDE RANGE OF DIESEL VEHICLES, BOTH LIGHT AND HEAVY-DUTY. THE ADVANCED FORMULATION ENSURES NOT ONLY SMOOTH ENGINE OPERATION BUT ALSO PROTECTS THE ENGINE AGAINST HIGH TEMPERATURES AND DAMAGES RESULTING FROM TOUGH AND HEAVY-DUTY OPERATIONS. THIS, IN TURN, CONTRIBUTES TO EXTENDING THE ENGINE'S LIFESPAN

THE CF OIL, WITH ITS MORE ADVANCED FORMULATION AND STRONGER ANTI-WEAR ADDITIVES COMPARED TO CD-GRADE OIL, IS RECOMMENDED FOR DIESEL ENGINES WITH INDIRECT FUEL INJECTION AND HIGH-PRESSURE TURBOCHARGING SYSTEMS. IT PROVIDES OPTIMAL PERFORMANCE UNDER HIGH-PRESSURE CONDITIONS, MAKING IT A SUITABLE REPLACEMENT FOR CD OIL WITH A VISCOSITY GRADE OF 40 AND 50 IS SUITABLE FOR LUBRICATING VARIOUS HEAVY-DUTY FOUR-STROKE DIESEL ENGINES WITH OR WITHOUT TURBOCHARGERS, PRODUCED BEFORE 1994. IT IS ALSO RECOMMENDED FOR ALL VEHICLES WHERE THE MANUFACTURER ADVISES USING CD-GRADE OIL

• **Features :**

- HIGH THERMAL STABILITY
- SUITABLE RESISTANCE TO OXIDATION
- ANTI-CORROSION AND RUST PROTECTION
- EXCELLENT AND DESIRABLE LUBRICATION
- VERY HIGH AND CONTROLLED VISCOSITY STABILITY
- MUCH LONGER OIL LIFE COMPARED TO REGULAR SAMPLES
- HIGH THERMAL STABILITY AND RESISTANCE TO MOTOR WEAR AT HIGH TEMPERATURES



TECHNICAL DATA
Chemical analysis

TEST	METHOD	UNIT	CD 40	CD 50	CF 40	CF 50	CF 15W40	CF 20W50	CD 20W50
DENSITY @ 15°C	D4052	kg/m³	885 (±5)	890 (±10)	890 (±5)	900 (±5)	885 (±5)	890 (±5)	885 (±5)
FLASH POINT	D92	°C	230 (±5)	230 (±10)	230 (±5)	240 (±5)	220 (±5)	225 (±5)	225 (±5)
POUR POINT	D97	°C	-12 (±5)	-12 (±5)	-15 (±5)	-15 (±5)	-27 (±3)	-30 (±3)	-33(±3)
VISCOSITY @ 100°C	D445	cSt	15.5 (±0.5)	19.5 (±0.3)	15.5 (±0.3)	19.5 (±0.3)	15.2 (±0.3)	19.5 (±0.3)	19.5 (±0.3)
VISCOSITY INDEX	D2270	---	100 (±5)	98 (±5)	95 (±5)	100 (±5)	135 (±5)	130 (±5)	130 (±5)
TBN	D2896	mg KOH/g	7 (±0.5)	7 (±0.5)	8 (±5)	8 (±0.5)	8 (±0.5)	8 (±0.5)	5.5 (±0.5)
NOACK	D5800		5 (±0.5)	5 (±0.5)	5 (±0.5)	5 (±0.5)	12 (±3)	8 (±2)	8 (±2)



TECHNICAL DATA
Chemical analysis

TEST	METHOD	UNIT	GL-1 90	GL-1 140	GL-4 75W80	GL-4 75W90	GL-4 85W90	GL-4 85W140	GL-5 75W80	GL-5 75W90	GL-5 85W90	GL-5 85W140
DENSITY @ 15°C	D1289	kg/m³	880 (±10)	900 (±5)	865 (±5)	880 (±5)	900 (±5)	880 (±5)	875 (±5)	880 (±5)	885 (±5)	890 (±5)
FLASH POINT (min)	D92	°C	225 (±5)	220 (±10)	195 (±5)	195 (±5)	205 (±5)	205 (±5)	195 (±5)	205 (±5)	205 (±5)	205 (±5)
POUR POINT (max)	D97	°C	-15 (±5)	-9 (±2)	-40 (±2)	-40 (±2)	-25 (±5)	-20 (±2)	-40 (±2)	-40 (±2)	-25 (±5)	-25 (±5)
VISCOSITY @ 100°C	D445	cSt	16.5 (±0.3)	25 (±1)	8.5 (±0.3)	16.5 (±0.5)	17 (±0.3)	25 (±1)	8.7 (±0.3)	17 (±1)	17 (±1)	17 (±0.3)
VISCOSITY INDEX	D2270	---	95 (±10)	110 (±10)	160 (±5)	165 (±5)	125 (±5)	110 (±5)	160 (±5)	175 (±5)	125 (±5)	125 (±5)

GEAR OIL

PETROFORCE GEAR OIL, FORMULATED WITH THE FINEST BASE OILS AND HIGH-QUALITY ADDITIVES, IS DESIGNED AS A LUBRICANT FOR MOVING PARTS IN THE GEARBOX (TRANSMISSION, DIFFERENTIAL, AND STEERING BOX) OF VEHICLES. ONE OF THE KEY PERFORMANCE CHARACTERISTICS OF A GEAR LUBRICANT IS ITS LOAD-BEARING CAPACITY AND MINIMIZING GEAR WEAR, WHICH WE HAVE PAID SPECIAL ATTENTION TO IN THE PRODUCTION OF OUR PRODUCTS

THIS PRODUCT BOASTS EXCELLENT LOAD-BEARING CAPACITY ACROSS VARIOUS VISCOSITY GRADES, MAKING IT SUITABLE FOR LUBRICATING MANUAL GEARBOXES IN A WIDE RANGE OF GASOLINE AND DIESEL VEHICLES, BOTH LIGHT AND HEAVY-DUTY, OPERATING IN OPEN CONDITIONS AND HIGH TEMPERATURES

Features:

- THERMAL STABILITY AND OXIDATION RESISTANCE IN CHALLENGING WORKING CONDITIONS
- ADEQUATE PROTECTION AGAINST CORROSION AND RUST
- EXCELLENT LUBRICATING AND ANTI-WEAR PROPERTIES
- EXCELLENT STABILITY AGAINST VISCOSITY REDUCTION
- OPERABILITY IN A WIDE RANGE OF TEMPERATURES
- VERY HIGH LOAD-BEARING CAPACITY

GL1

90
140



GL4

85W140
85W90
75W90
75W80



GL5

85W140
85W90
75W90
75W80





Automatic Transmission Fluid (ATF)

THE PETROFORCE AUTOMATIC TRANSMISSION FLUID, PRODUCED WITH HIGH-QUALITY BASE OIL AND VIRGIN ADDITIVES, IS FORMULATED AS AN EXCEPTIONAL LUBRICANT FOR THE MOVING PARTS WITHIN THE AUTOMATIC TRANSMISSION GEARBOX OF VEHICLES. ONE OF THE MOST CRITICAL PERFORMANCE CHARACTERISTICS OF A GEAR LUBRICANT IS ITS LOAD-CARRYING CAPACITY AND MINIMIZING GEAR WEAR, WHICH IS HIGHLY EFFECTIVE IN THE PERFORMANCE OF AUTOMATIC TRANSMISSIONS

THIS PRODUCT EXHIBITS EXCELLENT LOAD-CARRYING CAPACITY WITH VARIOUS VISCOSITY GRADES, MAKING IT RECOMMENDED FOR LUBRICATING THE MANUAL GEARBOX OF BOTH GASOLINE AND DIESEL LIGHT AND HEAVY-DUTY VEHICLES THAT OPERATE IN OPEN CONDI-TIONS AND HIGH TEMPERATURES

Features :

- THERMAL AND OXIDATION STABILITY UNDER TOUGH OPERATING CONDITIONS
- HIGHLY DESIRABLE LUBRICATION AND ANTI-WEAR PROPERTIES
- ADEQUATE PROTECTION AGAINST CORROSION AND RUSTING
- WIDE TEMPERATURE RANGE PERFORMANCE CAPABILITY
- EXCELLENT STABILITY AGAINST VISCOSITY BREAKDOWN
- VERY HIGH LOAD-CARRYING CAPACITY



TECHNICAL DATA
Chemical Analysis

TEST	METHOD	UNIT	CVT	AL4	ATF III	ATF IV	ATF VI
DENSITY @ 15°C	D1289	kg/m³	850 (±5)	850 (±5)	860 (±5)	865 (±5)	855 (±5)
FLASH POINT	D92	°C	195 (±5)	200 (±5)	195 (±5)	200 (±5)	200 (±5)
POUR POINT	D97	°C	-45 (±3)	-40 (±2)	-45 (±5)	-45 (±5)	-45 (±1)
VISCOSITY @ 100°C	D445	cSt	7 (±0.2)	7.3 (±0.2)	8.1 (±0.3)	7.3 (±0.3)	6.3 (±0.2)
VISCOSITY INDEX	D2270	---	175 (±5)	175 (±5)	175 (±5)	170 (±5)	150 (±5)



2T

4T

Motorcycle Engine Oil

THE PETROFORCE MOTORCYCLE ENGINE OIL IS PRODUCED USING VIRGIN BASE OIL DERIVED FROM THE REFINING OF CRUDE OIL THROUGH A CUT PROCESS, FOLLOWED BY HYDROGENATION AND THE ADDITION OF HIGH-QUALITY ADDITIVES. IT IS DESIGNED FOR USE IN ALL SEASONS AND WEATHER CONDITIONS IN IRAN

THIS PRODUCT **JASO MA** AND **JASO MB** MEETS THE STANDARD SPECIFICATIONS OF THE JAPANESE AUTOMOTIVE STANDARDS ORGANIZATION AND HAS A HIGH-QUALITY LEVEL AS **SN** FOR POWERFUL FOUR-STROKE MOTORCYCLES

- **Features :**
 - VIRGIN BASE OIL
 - EXCELLENT LUBRICATION AND ANTI-WEAR PROPERTIES
 - HIGH OXIDATION RESISTANCE AND THERMAL STABILITY
 - ADEQUATE PROTECTION AGAINST CORROSION AND RUSTING
 - APPROPRIATE FRICTION COEFFICIENT TO PREVENT PREMATURE CLUTCH SLIPPAGE AND WEAR
 - ACID NEUTRALIZER TO PREVENT ENGINE COMPONENT CORROSION FROM OXIDATION BY-PRODUCTS

SN/CF
10W30



SG/CD
10W40
20W50



SC/CC
50



TECHNICAL DATA
Chemical Analysis

TEST	METHOD	UNIT	SN 10W30	SG / CD 10W40	SG / CD 20W50	SC / CC 50
DENSITY @ 15°C	D4052	kg/m³	870 (±10)	870 (±5)	880 (±5)	890 (±5)
FLASH POINT	D92	°C	210 (±5)	220 (±5)	230 (±5)	230 (±5)
POUR POINT	D97	°C	-33 (±3)	-33 (±3)	-27 (±3)	-12 (±5)
VISCOSITY @ 100°C	D445	cSt	11.5 (±0.5)	15.5 (±0.3)	19.5 (±0.3)	19.5 (±0.5)
VISCOSITY INDEX	D2270	---	135 (±5)	130 (±5)	130 (±5)	100 (±5)
TBN	D2896	mg KOH/g	8 (±0.5)	5.5 (±0.5)	5.5 (±0.5)	4.5 (±0.5)
NOACK	D5800	°C	12 (±3)	12 (±3)	8 (±2)	4.5 (±0.5)

2 STROKE

OVER TIME, ENGINES DURING THEIR OPERATION CAN HAVE VARIOUS EFFECTS ON OIL. THESE INCLUDE DEPOSITION, CONTAMINATION, INCREASED VISCOSITY, AND A DECREASE IN OIL QUANTITY. THESE OCCURRENCES CAN LEAD TO ISSUES SUCH AS RING STICKING, CORROSION, WEAR, AND MORE. THEREFORE, THE IMPORTANCE OF CHOOSING HIGH-QUALITY OIL IS DOUBLED. STANDARD ORGANIZATIONS HAVE NOT DEFINED A SPECIFIC STANDARD FOR MARINE ENGINE OILS. REQUESTED TESTS ARE CONDUCTED ON SPECIFIC CASES, AND THERE IS NO SPECIFIC STANDARD. THE ABSENCE OF A STANDARD IS A SIGNIFICANT FACTOR DUE TO THE HIGH TEST DURATION REQUIRED FOR THESE ENGINES, WHICH IS AT LEAST 5,000 HOURS, EQUIVALENT TO ABOUT A YEAR.

PETROFORCE PROVIDES SPECIALIZED FORMULATIONS FOR MARINE OILS THAT SIGNIFICANTLY CONTRIBUTE TO IMPROVING THE MARINE ENGINE SYSTEM.

TPX TP 40 40

THIS PRODUCT IS MANUFACTURED WITH THE LATEST INNOVATIONS IN MARINE DIESEL ENGINES. DUE TO ITS EXCELLENT QUALITY AND OUTSTANDING PERFORMANCE, IT IS USED FOR LUBRICATING THE CYLINDERS AND FOUR-STROKE MARINE DIESEL ENGINE SYSTEMS WITH MEDIUM AND HIGH SPEEDS, USING FUELS WITH SULFUR CONTENT HIGHER THAN 3% BY WEIGHT. THIS PRODUCT IS FORMULATED AND PRODUCED IN TWO GRADES OF **TPX** AND **TP**.

FEATURES

- EXCELLENT RESISTANCE TO RUST AND CORROSION
- ADEQUATE RESISTANCE AGAINST OXIDATION
- HIGH THERMAL STABILITY
- QUICK NEUTRALIZATION OF ACIDIC MATERIALS RESULTING FROM THE COMBUSTION OF MARINE ENGINE FUEL
- REDUCTION OF DEPOSITS IN RINGS, PISTONS, AND CYLINDERS
- EFFECTIVE PROTECTION AGAINST COMPONENT CORROSION

LSC LSC 40 50

MARINE OILS ARE USED IN VARIOUS TYPES OF VESSELS AND BOATS THAT OPERATE ON UNDESIRABLE FUELS WITH HIGH SULFUR CONTENT (UP TO 5% BY WEIGHT) AND HIGH ASPHALTIC MATERIALS (BETWEEN 5 TO 10% BY WEIGHT). THEREFORE, THE MOTOR OIL USED IN THESE TYPES OF ENGINES MUST HAVE HIGH QUALITY. DESIGNERS OF MARINE VESSELS PLACE SIGNIFICANT IMPORTANCE ON IMPROVING ENGINE PERFORMANCE AND REDUCING FUEL CONSUMPTION. HENCE, THERE IS A HIGH DEMAND FOR SUITABLE OIL WITH DESIRABLE PERFORMANCE FROM CONSUMERS.

PETROFORCE MARINE OILS ARE FORMULATED WITH VIRGIN BASE OIL AND STATE-OF-THE-ART FORMULATION, MEETING GLOBAL STANDARDS. THEY ARE DESIGNED AS MULTI-PURPOSE OILS FOR LUBRICATING THE DIESEL MARINE ENGINE SYSTEMS, PROVIDING OPTIMAL PERFORMANCE.

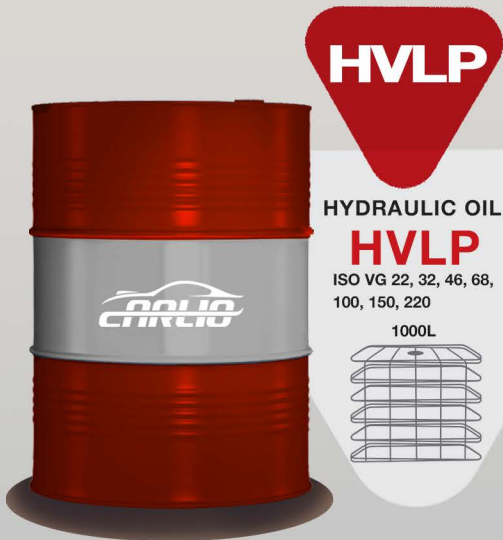


TECHNICAL DATA
Chemical analysis

TEST	METHOD	UNIT	LSC 40	LSC 50	TP 40	TPX 40	TSC-2
DENSITY @ 15°C	D4052	kg/m³	890 (±10)	890 (±10)	885 (±5)	890 (±10)	880 (±5)
FLASH POINT	D92	°C	220 (±10)	220 (±10)	230 (±5)	230 (±10)	210 (±5)
POUR POINT	D97	°C	-15 (±3)	-15 (±3)	-12 (±3)	-15 (±3)	-18 (±5)
VISCOSITY @ 100°C	D445	cSt	15.5 (±0.5)	19.5 (±0.5)	15 (±0.3)	15.5 (±0.5)	9.5 (±0.3)
VISCOSITY INDEX	D2270	---	95 (±5)	95 (±5)	90 (±5)	95 (±5)	95 (±5)
TBN	D2896	mg KOH/g	9 (±1)	7 (±1)	11.5 (±0.5)	19 (±1)	8 (±0.1)



TECHNICAL DATA Chemical analysis	TEST	METHOD	UNIT	HVLP 32	HVLP 46	HVLP 68	HLP 68	HH 46	HH 68
	DENSITY @ 15°C	D1289	kg/m³	870 (±5)	880 (±5)	880 (±5)	870 (±5)	880 (±5)	885 (±5)
	FLASH POINT (min)	D92	°C	195 (±5)	185 (±5)	190 (±5)	225 (±5)	195 (±5)	200 (±5)
	POUR POINT (max)	D97	°C	-12 (±5)	-25 (±2)	-24 (±2)	-15 (±5)	-12 (±5)	-12 (±5)
	VISCOSITY @ 40°C	D445	cSt	32 (±1)	46 (±1)	68 (±1)	68 (±1)	46 (±1)	68 (±1)
	VISCOSITY @ 100°C	D445	cSt	1A	1A	1A	1A	1A	1A
	VISCOSITY INDEX	D2270	---	135 (±5)	135 (±5)	135 (±5)	100 (±5)	95 (±5)	95 (±5)



PETROFORCE SPECIALIZED HVLP HYDRAULIC OILS ARE FORMULATED USING THE FINEST MINERAL OILS AND SPECIAL ADDITIVES, ALONG WITH VISCOSITY INDEX IMPROVERS. THESE OILS ARE DESIGNED FOR HEAVY-DUTY PRESSING OPERATIONS, HYDRAULIC SYSTEMS, AND EQUIPMENT OPERATING UNDER HEAVY PRESSURE CONDITIONS, AS WELL AS INDUSTRIAL MACHINING PROCESSES IN HARSH WORKING CONDITIONS

THESE OILS ARE AVAILABLE IN VISCOSITY GRADES OF 15, 22, 32, 46, 68, AND 100

THIS PRODUCT, WITH ITS MAXIMUM LEVEL OF ANTI-WEAR ADDITIVES AND VISCOSITY INDEX IMPROVERS, IS RECOMMENDED AS A HIGH-QUALITY HYDRAULIC OIL FOR HYDRAULIC SYSTEMS WHERE ITS USE IS RECOMMENDED

PETROFORCE SPECIALIZED HLP HYDRAULIC OILS ARE FORMULATED BY COMBINING THE FINEST MINERAL OILS WITH SPECIAL ADDITIVES THAT PROVIDE ANTI-OXIDATION AND ANTI-CORROSION PROPERTIES. ADDITIONALLY, EFFECTIVE ADDITIVES ARE INCLUDED TO REDUCE FRICTION AND ENHANCE HIGH-PRESSURE PROPERTIES (EP PROPERTIES) IN ACCORDANCE WITH TECHNOLOGICAL STANDARDS. THIS PRODUCT IS SUITABLE FOR VARIOUS OPERATIONS SUCH AS METAL FORMING, LIGHT AND HEAVY-DUTY PRESSURIZED HYDRAULIC SYSTEMS WITH HIGH THERMAL LOADS, AND HIGH-PRESSURE PUMPS IN QUICK-STEERING SYSTEMS

THESE OILS ARE AVAILABLE IN VISCOSITY GRADES OF 15, 22, 32, 46, 68, AND 100

THEY FIND APPLICATIONS IN INDUSTRIAL MACHINING, HYDRAULIC SYSTEMS, ROLLING AND MELTING FURNACES, HIGH-PRESSURE EQUIPMENT AND MACHINERY IN MILITARY, AGRICULTURAL, MINING, AND CONSTRUCTION SECTOR



PETROFORCE HYDRAULIC CIRCULATING OILS ARE PRODUCED BY COMBINING HIGH-QUALITY MINERAL OIL WITH SPECIAL ANTI-OXIDATION ADDITIVES. THIS PRODUCT IS SUITABLE FOR VARIOUS LOW-PRESSURE HYDRAULIC AND CIRCULATING SYSTEMS (R&O), SUCH AS ENCLOSED GEAR SYSTEMS, CHAIN DRIVES, WHEEL BEARINGS, AND ELECTRIC MOTOR-PUMP UNITS

THESE OILS ARE AVAILABLE IN VISCOSITY GRADES OF 15, 22, 32, 46, 68, AND 100

ADDITIONALLY, THIS PRODUCT SERVES AS A CIRCULATING OIL WITH EXCELLENT LUBRICATING PROPERTIES IN MOST CIRCULATING SYSTEMS THAT REQUIRE HIGH-QUALITY OIL. IT IS ALSO USED IN HYDRAULIC SYSTEMS AND POWER TRANSMISSION SYSTEMS IN ACCORDANCE WITH THE RELEVANT STANDARDS



CLP
Industrial gear oil

PETROFORCE INDUSTRIAL GEAR OIL IS A SPECIAL PRODUCT PRODUCED WITH HIGH-QUALITY RAW MATERIALS AND VIRGIN BASE OIL. IN ADDITION TO LUBRICATION, IT POSSESSES A HIGH LOAD-CARRYING CAPACITY AND CAN EFFECTIVELY PROTECT GEAR SURFACES AGAINST HIGH PRESSURE. THE ANTI-OXIDATION AND THERMAL STABILITY ADDITIVES IN THIS PRODUCT INCREASE ITS VISCOSITY, PREVENTING THE FORMATION OF DEPOSITS AND, CONSEQUENTLY, THE SETTLING OF THE OIL AFTER CONTINUOUS HOURS OF OPERATION. THESE OILS ARE AVAILABLE IN VARIOUS VISCOSITY GRADES, INCLUDING 100, 150, 220, 320, 460, 680, AND 1000.



CLP

INDUSTRIAL GEAR OIL
CLP

ISO VG 46, 68, 100, 150, 220, 320, 460, 680, 1000

1000L







HEAT

HEAT TRANSFER OIL
HT
THERMAL OIL

1000L





HEAT
Heat transfer oil

PETROFORCE HEAT TRANSFER OIL IS A BLEND OF THE FINEST MINERAL OIL AND HIGH-QUALITY ADDITIVES. IT NOT ONLY HAS A HIGH THERMAL TRANSFER COEFFICIENT BUT ALSO BOASTS EXCELLENT THERMAL STABILITY. IT IS SUITABLE FOR OPERATION UP TO 300 DEGREES CELSIUS IN CLOSED SYSTEMS AND UP TO 190 DEGREES CELSIUS IN OPEN SYSTEMS.

- Features :
- EXCELLENT THERMAL STABILITY
 - PREVENTION OF DEPOSIT FORMATION
 - HIGH THERMAL TRANSFER COEFFICIENT
 - HIGH RESISTANCE TO OXIDATION AND CORROSION

COLD
Heat treatment oil

PETROFORCE COLD QUENCHING OILS ARE A BLEND OF HIGH-QUALITY MINERAL OILS AND ADDITIVES USED AS COOLING FLUIDS IN THE HEAT TREATMENT PROCESSES OF MATERIALS, PARTS, METALS, AND ALLOYS OUTSIDE THE FURNACE. THEY CONTRIBUTE TO REDUCING STRESS AND IMPROVING THE PROPERTIES OF THE FINAL PRODUCT. THESE OILS, WITH A HIGH FLASH POINT AND THERMAL STABILITY (UP TO 230 DEGREES CELSIUS), ALONG WITH SUITABLE ADDITIVES, NOT ONLY PROTECT AGAINST OXIDATION BUT ALSO EXHIBIT EFFECTIVE HEAT TRANSFER DURING OPERATIONS.



COLD

COLD QUENCHING OIL
Q68-QS145

ISO VG 46, 68, 100, 150, 220, 320, 460, 680, 1000

1000L



TECHNICAL DATA
Chemical analysis

TEST	METHOD	UNIT	CLP 150	CLP 220	CLP 320	HT	Q 68	QS 165
DENSITY @ 15°C	D1289	kg/m³	890 (±5)	895 (±5)	895 (±5)	870 (±3)	890 (±5)	850 (±5)
FLASH POINT	D92	°C	210 (±5)	225 (±5)	220 (±5)	205 (±5)	240 (±5)	200 (±5)
POUR POINT	D97	°C	-7 (±2)	-7 (±2)	-7 (±2)	-12 (±5)	-7 (±3)	-7 (±3)
VISCOSITY @ 40°C	D445	cSt	150 (±5)	220 (±5)	320 (±5)	220 (±5)	115 (±0.3)	26 (±0.3)
VISCOSITY INDEX	D2270	---	---	---	---	100 (±5)	90 (±5)	118 (±5)

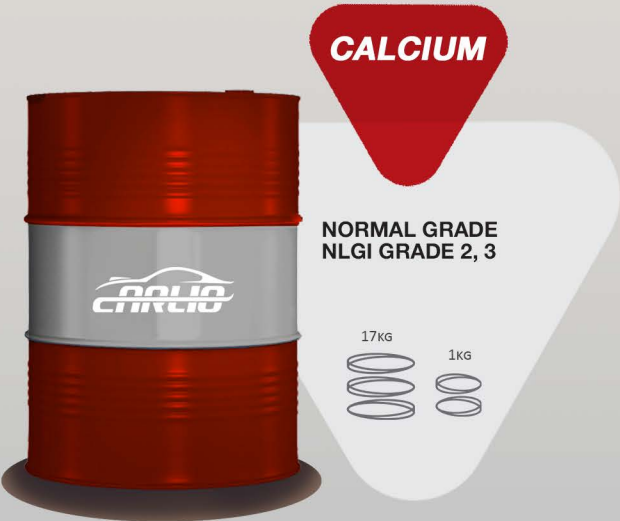


CALCIUM

PetroForce calcium-based greases are formulated with high-quality mineral oil, calcium soap, and special additives. They are suitable for use in bearings, universal joints, chassis, and steering gearboxes of industrial machinery

This product is formulated by combining high-quality mineral oil, calcium soap as a thickener, and special additives to enhance the grease properties. Due to the use of high-quality calcium, it exhibits excellent stability in the presence of water

- **Features :**
 - High stability against water washout and humid environments
 - High pumpability
 - Operating temperature range from minus 20 degrees to positive 60 degrees Celsius



LITHIUM

PetroForce lithium grease is a multi-purpose lubricant designed for all industries. Mechanical stability, high durability, and good resistance to water are among the properties of this grease. Additionally, this product is capable of operating in a temperature range of -20 to +130 degrees Celsius. The grease is formulated with quality mineral oil and lithium soap thickener, and it contains anti-wear, anti-corrosion, and antioxidant additives

This product, based on lithium soap and the finest mineral oils, is formulated and produced. The lithium stearate ensures excellent mechanical stability and very high thermal resistance for this product



BENTONE

This grease is formulated with a non-soap thickener (mineral powder) in accordance with global standards. Due to its unique structure, it does not melt and is suitable for use in conditions with a maximum temperature of 180 degrees Celsius

The high-quality bentonite-based non-flammable grease is designed for lubricating industrial equipment operating under heavy loads and high temperatures. It is suitable for medium to large-sized, low-speed bearings that operate at very high temperatures, where greases based on conventional soaps often do not provide satisfactory lubrication



TECHNICAL DATA Chemical analysis	TEST	METHOD	UNIT	CALCIUM NLGI II	CALCIUM NLGI III	MULTIPURPOSE CALCIUM NLGI III	LITHIUM GREASE	BENTONE NLGI III
	SOAP TYPE	---	---	Calcium	Calcium	Calcium	Lithium	Bentone
	COLOR	ASTM D445	---	Brown	Brown	Dark Green	Brown	Red
	CORROSION	ASTM D2270	---	Pass	Pass	Pass	Pass	Pass
	WATER RESISTANCE	ASTM D92	---	Very Good	Very Good	Very Good	Very Good	Very Good
	DROP POINT	ASTM D97	°C	95 (±5)	95 (±5)	95	190 (±5)	240
	NLGI	ASTM D4052	---	2	3	3	2	3
	PENETRATION	ASTM D130	0.1 mm	285 (±5)	235 (±5)	230 (±10)	285 (±5)	235 (±5)



Length x Width x Height (CM)		20 ft	40 ft	TRUCK
				
1L X 12	35x26X25	1296	2000	2000
				
4L x 6	41.5x32.5x33.5	686	1421	1421
				
5L X 4	39.5x26X34.5	882	1250	1250
				
20L	28x25X28	1134	1315	1315
				
200L	58x58X88	80	122	124
				
1KG X 12	47x35.5X31.5	504	892	892



	
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