DANA®

DANA GROUP

(LUBRICANTS & GREASE DIVISION)

25 + YEARS OF MANUFACTURING

Adding Value To Oil

Automotive Lubricant Oils & Grease

Industrial & Marine Lubricant Oils

Base Oil & Additives

DANA LUBRICANTS FACTORY LLC

ISO 9001 : 2015 CERTIFIED

Manufacturing Plant-1: 50,000 MT Annual Capacity

Manufacturing Plant-2: 50,000 MT Annual Capacity

www.danagroups.com, www.danalubes.com, www.lubricantesdana.com

VISION

We aspire to be the global Oil, Gas & Energy industry benchmark for the world's most reliable and innovative Lubricants manufacturer, service and solution provider in the energy industry.

MISSION

To maximize value for our worldwide client base by supply of high quality base oil & lubricants products, providing related services and solutions while utilizing innovative technologies and a team of motivated employees, focused on continuous improvement, highest business standards, work ethics and corporate citizenship.

International Industrial Certificate

CERTIFICATION

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ABOUT DANA GROUP

Dana Group of companies (www.danagroups.com), since 1991, ISO 9001 :2015 certified has a long and successful history of winning business through clients satisfaction by manufacturing of high quality compliance products serving for time indefinite.

- Annual turn over exceeding 650 million USD
- Presence in 35+ countries
- Family owned business employing 500+ employees
- Quantity Manufacturing backed by strong technology & engineering
- Strong leadership well known GCC leader Dr. Birbal Singh Dana

Dr. Birbal Singh Dana

Founder, Chairman & Managing Director of DANA Group
Famous Indian Business Leader in Middle East

- Forbes Middle East 4th top Indian leader in 2015, 2016, 2017, to be continued .....
- Listed in top 50 richest Indian in GCC in 2014, 2015, 2016, 2017, to be continued ....
- Arabian Business awarded him Top 100 powerful Indian
- ICICI awarded him NRI(Non Resident Indian) Award for Entrepreneurship in 2017

Many more such accolades are associated with visionary founder of Dana Group. Sound principle, honesty and strong acumen drive Dana Group resulting in 12 factories operating in UAE & GCC countries.

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PRODUCTION FACILITIES

DANA Lubricants Factory LLC, strategically headquartered in Deira Dubai (10 mts away from Dubai International Airport) since 1991 is having modern and well equipped production plant with manufacturing facilities as below :

DANA Lubricants Factory LLC:-

- Manufacturing Plant 1 (50000 MT) - Blending & Filling of Automotive Lubricants, Industrial Lubricants & Marine Lubricants.
- Manufacturing plant 2 (50000 MT) - Bleding & Filling of Grease, Speacialty Lubricants, Base Oils of all groups.

* Production Capacity of more than 100,000 MT/Annum.
* Base Oil Bulk storage facility of 50,000 MT.
* Head Office in Deira, Dubai (10 mts away from International Airport).
* Well equipped Scientific Laboratory for oil testing .
* Quality , Inventory Management , Container Loading , Product development works as per ISO 9001: 2015 QMS Systems.
* Fleet of trucks and road tankers to deliver products to customer destinations all over U.A.E.
* Financing facilities available for export and executing bulk orders .
* Filling line to produce packing's from 1 liter to 208 liters.

All Oils are manufactured strictly as per API standards under QMS. We match following specifications :-

* American Petroleum Institute (API).
* Society of Automotive Engineers (SAE).
* US Military (MIL).
* Machine manufacturers like Mercedes Benz, BMW, Porsche, GM, Ford, Volvo, MACK, MAN, Caterpillar, Komatsu, Toyota & others.
* As per Customer Formulation (OEM Basis).

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BASE OIL

DANA Lubricants specializes in Procurement and Distributing Base Oil of all Grades in MENA region, GCC countries and ASEAN Countries .We have established tie up with world biggest refineries for sourcing Base oils of all Grades of Group 1 , 2 and 3 .We have stocks of base oil in UAE , Singapore and India . Major Base Oil supplies are from :-

TIE UP WITH REFINERIES

* Refineries in Middle East.
* Refineries in Russia and Soviet Union.
* Refineries in South Korea and Japan.
* Refineries in Europe and America.

MAJOR BASE OIL GRADES ARE :-

* SN 150 Group 1
* N150 Group 2
* SN 500 Group 1
* N500 Group 2
* BS 150
* 4cSt Group 3
* BS 120
* 6cSt Group 3
* N70 Group 1
* 8cSt Group 3

BASE OIL - DANA STOCK RESERVES LOCATION.

* U.A.E Shipped from Jebel Ali Port.
* Singapore - Shipped from Singapore Port.
* South Korea - Shipped from Ulsan Port.
* Russia Shipped from Vysotsk Terminal.

Specification Group I

Parameters	Method	Unit	SN 150	SN 500	BS 150
Density @ 15°c	ASTM D 1298	Kg/L	0.8812	0.8918	0.8940
Color	ASTM D 1500	-	1.5	2.0	2.0
Kinmetaic Viscosity@ 40°C	ASTM D445	cSt	32.5	95.35	480.60
Kinmetaic Viscosity@ 100°C	ASTM D445	cSt	5.34	10.54	31.32
Viscosity Index	ASTM D 2270	-	95	92	98
Flash Point	ASTM D 92	C	210	248	310
Pour Point	ASTM D 97	C	-3	-3	-12

Specification Group II:

Parameters	Method	Unit	N150	N 500
Density @ 15°c	ASTM D 1298	Kg/L	0.8671	0.8811
Color	ASTM D 1500	-	L1.0	L1.0
Kinmetaic Viscosity@ 40°C	ASTM D445	cSt	30.14	95.79
Kinmetaic Viscosity@ 100°C	ASTM D445	cSt	5.18	10.97
Viscosity Index	ASTM D 2270	-	101	99
Flash Point	ASTM D 92	C	212	242
Pour Point	ASTM D 97	C	-12	-12

Specification Group III:

Parameters	Method	Unit	4 CST	6 CST	8 CST
Density @ 15°c	ASTM D 1298	Kg/L	0.834	0.843	0.847
Color	ASTM D 1500	-	0.0	0.0	0.0
Kinmetaic Viscosity@ 40°C	ASTM D445	cSt	19.62	33.32	43.89
Kinmetaic Viscosity@ 100°C	ASTM D445	cSt	4.24	6.00	7.24
Viscosity Index	ASTM D 2270	-	123	127	127
Flash Point	ASTM D 92	C	220	235	252
Pour Point	ASTM D 97	C	-18	-18	-15

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FULLY SYNTHETIC GASOLINE ENGINE OIL

MEETS AND EXCEEDS

API SN, SM, SL, SJ, SN/CJ4, SM/CI4, SL/CH4
ACEA A1/B1, A3/B3, A4/B4
ILSAC GF – 5
MB – A229.1, MB 229.3
VW 00 505/00 502, VW 01 503
FORD WSS-M2C-946A, WSS-M2C-929A
PORSCHE A40

SAE 10W40, 5W40, 10W30, 5W30, 5W20, 0W20, 0W30, 0W40

API SJ, SL, SM, SN, SN/CJ4, SM/CI4, SL/CH4

PROPERTY	Test Method	SAE 0W20	SAE 0W30	SAE 0W40	SAE 10W40	SAE 10W30	SAE 5W20	SAE 5W30	SAE 5W30
DENSITY@ 15°C,Kg/L	ASTM D4052	0.8497	0.8507	0.8543	0.8736	0.8670	0.8596	0.8665	0.8646
VISCOSITY @ 100°C (cst)	ASTM D445	8.7	10.9	12.9	14.68	10.45	8.68	10.18	14.42
VISCOSITY @ 400C (cst)	**ASTM D445**	**44.8**	**62.9**	**70.8**	**98.19**	**64.82**	**49.47**	**62.40**	**93.09**
VISCOSITY INDEX	ASTM D 2270	177	166	186	155	150	155	150	161
FLASH POINT (°C)	ASTM D92	224	226	226	224	220	218	218	214
POUR POINT (°C)	ASTM D97	-47	-49	-50	-39	-42	-42	-42	-45
TOTAL BASE NUMBER Mg Koh/g	ASTM D2896	7.2	7.4	7.5	7.58	7.42	7.15	7.50	7.42
HTHS VISCOSITY, mPa.S @ 150 °C	ASTM D4683	2.7	3.0	3.6	3.56	3.0	2.65	2.95	3.58
MRV @ 40°C	ASTM D4684	9200	13250	21600	21600	13250	9150	13245	21600
SULPHATED ASH % (Cst)	ASTM D874	0.8	0.9	1.34	1.33	0.9	0.82	0.88	1.32
PHOSPHOROUS	ASTM D4951	0.065	0.065	0.1	0.1	0.064	0.067	0.062	0.1

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FULLY SYNTHETIC DIESEL ENGINE OIL

MEETS AND EXCEEDS

API CF4, CH4, CI4, CJ4, CH4/SL, CI4/SM, CJ4/SN
ACEA E6, E7, E9
ILSAC GF – 5
MB – 228.31 ,228.51
FORD WSS-M2C-945A, WSS-M2C-930A
GENERAL MOTORS GM 6094M
MAN M 3677, M 3477, M 1-3271

VOLVO VDS3-, VDS4-
CATERPILLAR ECF3-
CUMMINS CES 20081
DAF EXTENDED DRAIN
FORD WSS-M2C17
SCANIA LOW ASH1

SAE 10W40, 5W40, 10W30, 5W30, 5W20, 15W40

API CF4, CH4, CI4, CJ4, CH4/SL, CI4/SM, CJ4/SL

PROPERTY	Test Method	SAE 5W20	SAE 5W30	SAE 5W40	SAE 10W30	SAE 10W40	SAE 15W40
DENSITY @150°C(Kg/L)	ASTM D4052	0.8607	0.8637	0.8657	0.8797	0.8807	0.8841
VISCOSITY @ 100°C(cst)	ASTM D445	8.9	11.8	14.5	11.7	14.98	15.34
VISCOSITY @ 40°C(cst)	ASTM D445	49.8	69	97.9	76	101.35	107.70
VISCOSITY INDEX	ASTM D 2270	160	168	153	148	155	150
FLASH POINT(°C)	ASTM D92	230	234	234	220	225	228
POUR POINT(°C)	ASTM D97	-43	-45	-45	-39	-35	-36
TOTAL BASE NUMBER Mg Koh/g	ASTM D2896	8.4	10	10.7	8.8	10.5	10.5
SULPHATED ASH % (Qt)	ASTM D874	0.85	1.0	0.95	<1%	<1%	<1%

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SEMISYNTHETIC MOTOR OILS

SAE	5W30, 5W40
	API SN/CJ4, SM/CI4, SL/CI4

SAE	10W30, 10W40
	API SN/CJ4, SM/CI4, SL/CI4

PROPERTY	Test Method	SAE 5W30	SAE 5W40	SAE 10W30	SAE 10W40
DENSITY @ 150°C,(Kg/L)	ASTM D4052	0.856	0.8620	0.8720	0.8769
VISCOSITY @ 1000°C(cst)	ASTM D445	10.70	14.75	10.01	15.17
VISCOSITY @ 400°C (cst)	ASTM D445	64.20	105.25	62.50	107.00
VISCOSITY INDEX	ASTM D 2270	157	145	146	149
FLASH POINT (°C)	ASTM D92	222	230	228	224
POUR POINT (°C)	ASTM D97	-39	-42	-39	-39
SULPHATED ASH % (Cst)	ASTM D874	<1%	<1%	1%	1%

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SEMI SYNTHETIC DIESEL ENGINE OIL

HEAVY DUTY ENGINE OILS

SAE	15W40, 15W50	SAE	20W50, 25W60
	API CJ4/SN, CI4/SM, CI4/SL		API CJ4/SN, CI4/SM, CI4/SL

PROPERTY	Test Method	SAE 15W40	SAE 15W50	SAE 20W50	SAE 25W60
DENSITY @ 15°C(Kg/LC)	ASTM D4052	0.883	0.865	0.885	0.896
VISCOSITY @ 100°C	ASTM D445	15.50	17.4	17.4	23.47
VISCOSITY @ 40°C (cst)	ASTM D445	118.00	125.00	145.00	221.25
VISCOSITY INDEX	ASTM D 2270	139	153	132	131
FLASH POINT (°C)	ASTM D92	226	232	238	248
POUR POINT (°C)	ASTM D97	-33	-33	-30	-21
SULPHATED ASH %, MAX (Cst)	ASTM D874	1.0%	1.1%	0.9%	1.0%

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PREMIUM GASOLINE ENGINE OIL
(100% VIRGIN MINERAL OIL)

MEETS AND EXCEEDS

ACEA A3/B4, E9	CDC POWERGUARD 93K2108
API SF, SJ, SL, SJ/CH4, SL/CH4, SL/CI4	MACK EO-O PREMIUM PLUS
JASO DH-2	MB-APPROVAL 228.31
CAT ECF-3	RVI RLD-3
CES-20.081	VOLVO VDS 2, VDS 3, VDS 4

SAE

10W40, 15W40, 20W50, 25W60, 20W60, SAE 40, SAE 50

API SF, SJ, SL, SJ/CH4, SL/CH4, SL/CI4

API SERVICE SL SAE 20W50 RESOURCE CONSERVING
API SERVICE SL SAE 25W40 RESOURCE CONSERVING
API SERVICE SL/CI4 SAE 10W40 RESOURCE CONSERVING
API SERVICE SL SAE 20W50 RESOURCE CONSERVING
API SERVICE SL SAE 15W40 RESOURCE CONSERVING

API APPROVALS AVAILABLE

PROPERTY	Test Method	SAE 10W40	SAE 15W40	SAE 20W50	SAE 25W60	SAE 20W60
DENSITY @ 15°C (Kg/LC)	ASTM D4052	0.887	0.886	0.892	0.8945	0.894
VISCOSITY @ 100°C (cst)	ASTM D445	14.80	14.86	19.11	24.8	23.8
VISCOSITY @ 40°C (cst)	ASTM D445	116.7	117.6	165.3	235.62	226.01
VISCOSITY INDEX	ASTM D 2270	130	130	131	133	131
FLASH POINT (°C)	ASTM D92	220	220	234	240	240
POUR POINT (°C)	ASTM D97	-24	-24	-21	-21	-21
TOTAL BASE NUMBER Mg Koh/g	ASTM D2896	10	10.1	10.1	9.12	9.85

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PREMIUM DIESEL ENGINE OIL
(100% VIRGIN MINERAL OIL)

MEETS AND EXCEEDS

ACEA A3/B4, E9	CDC POWERGUARD 93K2108
API SF, SJ, SL, SJ/CH4, SL/CH4, SL/CI4	MACK EO-O PREMIUM PLUS
JASO DH-2	MB-APPROVAL 228.31
CAT ECF-3	RVI RLD-3
CES-20.081	VOLVO VDS 2, VDS 3, VDS 4

SAE

10W40, 15W40, 20W50, 25W60, 20W60, HD 40, HD 50, HD 60, HD 70

API CF4, CH4, CI4, CJ4, CH4/SL, CI4/S

API SERVICE CI4 — SAE 15W40 — RESOURCE CONSERVING

API SERVICE CI4 — SAE 15W40 — RESOURCE CONSERVING

API SERVICE CI4/SL — SAE 15W40 — RESOURCE CONSERVING

SCHEDULE A - LICENSE AGREEMENT

Engine Oil Licensing and Certification System

SCHEDULE A - LICENSE AGREEMENT

Engine Oil Licensing and Certification System

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MOTORCYCLE 4T ENGINE OIL

JASO MA 2, JASO MB 2:

SAE	
4T	10W30, 10W40, 20W40, 20W50
	API SL, SM, SN

PROPERTY	Test Method	4T SAE 10W30 JASO MA2	4T SAE 10W40 JASO MA2	4T SAE 20W40 JASO MA2	4T SAE 20W50 JASO MA2
DENSITY @ 15°C,(Kg/LC)	ASTM D4052	0.8750	0.8780	0.8886	0.8902
VISCOSITY @ 100°C (cst)	ASTM D445	11.85	15.61	15.40	18.89
VISCOSITY @ 40°C (cst)	ASTM D445	83.43	114.40	119.35	160.70
VISCOSITY INDEX	ASTM D 2270	135	144	135	133
FLASH POINT(°C)	ASTM D92	220	224	228	234
POUR POINT(°C)	ASTM D97	-36	-33	-30	-30
TOTAL BASE NUMBER Mg Koh/g	ASTM D2896	7.28	7.50	7.46	7.52V

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CHARACTERISTICS	TEST METHODS	2T TCW	2T TCW-3
COLOUR		BLUE	BLUE
DENSITY @ 15°C (Kg/LC)	ASTM D4052	0.8716	0.8638
VISCOSITY @ 100°C, mm^2/s	ASTM D445	7.5	8.08
VISCOSITY @ 40°C , mm^2/s	ASTM D445	50.3	48.01
VISCOSITY INDEX	ASTM D 2270	110	141
FLASH POINT(°C)	ASTM D92	105	138
POUR POINT(°C)	ASTM D97	-30	-39

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AUTOMATIC TRANSMISSION FLUID

TYPE A, DEX II, DEX-III, DEX IV, DEX VI

PROPERTY	Test Method	TYPE A	DEX II	DEX III	DEX IV	DEX VI
DENSITY @ 15°C (Kg/L)	ASTM D4052	0.876	0.868	0.864	0.863	0865
VISCOSITY @ 100°C (cst)	ASTM D445	7.6	7.1	8.1	7.0	5.83
VISCOSITY @ 40°C (cst)	ASTM D445	41.30	34.00	42.00	32.00	29.50
VISCOSITY INDEX	ASTM D 2270	155	178	170	176	145
FLASH POINT(°C)	ASTM D92	202	192	194	200	214
POUR POINT(°C)	ASTM D97	-33	-36	-39	-36	-36

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ANTIWEAR HEAVY HYDRAULIC OIL

German Technology

PERFORMANCE

PROPERTY	Test Method	AW 32	AW 46	AW 68	AW 100	AW 150
DENSITY @ 15°C (Kg/L)	ASTM D4052	0.874	0.873	0.875	0.875	0.896
VISCOSITY @ 100°C (cst)	ASTM D445	5.40	6.70	8.60	11.40	15.00
VISCOSITY @ 40°C (cst)	ASTM D445	32.00	46.00	68.00	100.00	150.00
VISCOSITY INDEX	ASTM D 2270	99	97	97	100	100
FLASH POINT(°C)	ASTM D92	216	230	236	238	240
POUR POINT(°C)	ASTM D97	-18	-18	-18	-21	-21

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GEAR OIL

PROPERTY	Test Method	SAE 90		SAE 140		SAE 75W80		SAE 75W140		SAE 85W90		SAE 85W140	
		GL4	GL5	GL4	GL5	GL4	GL5	GL4	GL5	GL4	GL5	GL4	GL5
DENSITY @ 15°C (Kg/L)	ASTM D4052	0.8954	0.8950	0.91	0.91	0.870	0.870	0.891	0.89	0.90	0.90	0.903	0.908
VISCOSITY @ 100°C (cst)	ASTM D445	17.29	18.85	30.00	25.10	9.69	9.55	24.5	25.0	15.3	17.0	25.4	25.6
VISCOSITY @ 40°C (cst)	ASTM D445	169.39	184.2	447	341	58.50	53.7	172.4	182	153	184	333	358
VISCOSITY INDEX	ASTM D 2270	110	115	95	96	150	163	174	170	100	99	9999	94
FLASH POINT(°C)	ASTM D92	238	236	260	252	238	240	210	208	220	222	230	224
POUR POINT(°C)	ASTM D97	-15	-15	-12	-15	-36	-36	-39	-39	-27	-24	-21	-21

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INDUSTRIAL GEAR OIL

GEAR OIL ISO 68, 100, 150, 220, 320, 460, 680, 800

PROPERTY	Test Method	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 800
DENSITY @ 15°C (Kg/L)	ASTM D4052	0.88	0.88	0.89	0.89	0.90	0.90	0.91	0.93
VISCOSITY @ 100°C (cst)	ASTM D445	8.8	11.2	14.7	19.0	24.1	30.6	39.20	39.00
VISCOSITY @ 40°C (cst)	ASTM D445	68.0	100	150	220	320	460	680	800
VISCOSITY INDEX	ASTM D 2270	101	97	97	97	97	96	90	92
FLASH POINT(°C)	ASTM D92	230	230	230	238	238	240	285	290
POUR POINT(°C)	ASTM D97	-15	-18	-21	-21	-24	-15	-9	-9

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Heavy Compressor Oil

German Technology

PROPERTY	Test Method	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150
DENSITY @ 15°C (Kg/L)	ASTM D4052	0.860	0.873	0.883	0.892	0.902
VISCOSITY @ 100°C (cst)	ASTM D445	6.0	7.7	8.7	11.05	14.85
VISCOSITY @ 40°C (cst)	ASTM D445	32.0	46	68	99	155
VISCOSITY INDEX	ASTM D 2270	136	135	99	96	95
FLASH POINT(°C)	ASTM D92	218	230	235	238	240
POUR POINT(°C)	ASTM D97	-30	-33	-30	-33	-30

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COOLANT/ANTIFREEZE - OAT TECHNOLOGY

Meets the following specifications

- ASTM D 3306 GM 6043M Ford ESE-M97B18-C
- ASTM D 4656 GM 1825M Case Corp. MS1710
- ASTM D 4985 Ford ESE-M97B44-A Navistar B1 (B6-0086O)
- ASTM D 5345 Chrysler MS-7170 Cummins 3666132
- SAE J814C Freightliner 48-22880 Detroit Diesel 7SE298
- SAE J1038 Cummins 90T8-4 Ford New Holland 9-86
- SAE J1941 Waukesha 4-19470 John Deere H-5
- SAE J1034 White (GMC Div. Of Volvo) Mack Truck 014GS17004
- GM 1899M John Deere 8650-5 ATA RP 302A

TYPICAL PROPERTIES

DANA CAR COOLANT/ANTIFREEZE	SPECIFIC GRAVITY @ 25°C	BOILING POINT°C	FREEZING POINT°C	RESERVE ALKALINITY
Concentration 33 %	1.05	107	-17	8.0 - 12 ml
Concentration 40 %	1.055	108	-25	8.0 - 12 ml
Concentration 50 %	1.06	110	-36	8.0 - 12 ml
Concentration 100%	1.13	165	-50	8.0 - 12 ml

BRAKE FLUID

MEETS THE FOLLOWING SPECIFICATIONS

- SAE J1703, J1704
- FMVSS No. 116 DOT 3 and DOT 4 MOTOR VEHICLE BRAKE FLUID

TYPICAL PROPERTIES

DESCRIPTION	TEST METHODS	DOT 3	DOT 4 Grade - B
Appearance	Visible	Transparent	Transparent
Equilibrium reflux boiling point (ERBP) °C,	FMVSS 116	200-205	230- 235
Wet equilibrium reflux boiling point (WERBP)°C	FMVSS 116	140-145	160-165
Kinematic Viscosity@ 100°C	ASTM D445	>1.5	>1.5
pH	FMVSS 116	7.5-11.0	7.5-11.0
Specific Gravity 60 °F	ASTM D-1298	1.09-1.15	1.09-1.15
Flash Point °C	ASTM D-92	130 -135	121-128

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GREASE

DANA GREASE

- DANA Grease is formulated in accordance with Germany formulation & using European additives resulting in high quality & exceeding performance levels
- Our engineers are well experienced and have undertaken lots of R&D works for grease production
- We are the leaders for manufacturing of a wide variety of greases in UAE.
- 365x24x7 stock availability with consistent quality makes us a reliable supplier internationally

VARIOUS TYPES OF GREASES

- MULTI PURPOSE GREASE
- INDUSTRIAL GREASE.
- ALUMINIUM BASED GREASE.
- NON SOAP GREASE
- MOLYBDENUM & GRAPHITE GREASE
- SYNTHETIC GREASE
- HIGH TEMPERATURE GREASE.
- MARINE GREASE. (ETC)

SPECIFICATIONS		
DANA CALCIUM MULTIPURPOSE GREASE	MP2	MP3
SOAP BASE	CALCIUM	CALCIUM
APPEARANCE	SMOOTH AND HOMOGENEOUS	SMOOTH AND HOMOGENEOUS
WORK PENETRATION @ 25°C	265-295	220-250
OPERATING TEMPERATURE	-20 TO +70°C	-20 TO +140°C
Base Oil Properties Kinematic Viscosity @ 40°C , cSt	150	220
COPPER STRIP CORROSION	1B MAX	1B MAX

DANA LITHIUM GREASE	MP2	MP3	EP2	EP3	EP0	EP00
SOAP BASE	LITHIUM	LITHIUM	LITHIUM	LITHIUM	LITHIUM	LITHIUM
APPEARANCE	SMOOTH & HOMOGENEOUS	SMOOTH & HOMOGENEOUS	SMOOTH & HOMOGENEOUS	SMOOTH & HOMOGENEOUS	SMOOTH & HOMOGENEOUS	SMOOTH & HOMOGENEOUS
WORK PENETRATION @ 25°C	265-295	220-250	265-295	220-250	355-385	400-430
OPERATING TEMPERATURE°C	-20 TO +130° C	-20 TO +140° C	-20 TO +130° C	-20 TO +140° C	-20 TO +110° C	-20 TO +110° C
Base Oil Properties Kinematic Viscosity @ 40°C, cSt	220	220	220	220	220	220
DROP POINT, MIN, °C	194	200	194	200	180	175
COPPER STRIP CORROSSION @ 100°C, 24 HRS	1B MAX	1B MAX	1B MAX	1B MAX	1B MAX	1B MAX

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DANA INDUSTRIAL GEAR OIL SERIES

DANA INDUSTRIAL GEAR OILS are high quality extreme-pressure oils designed primarily for the lubrication of heavy duty industrial gears. Their high load carrying capacity and anti-friction characteristics combine to offer superior performance in gears.

Features & Benefits:

It is formulated to resist thermal and chemical breakdown throughout the maintenance interval.

Excellent load carrying capacity helps to reduce gear tooth and bearing wear on both steel and bronze components.

It has excellent corrosion protection, protecting both steel and bronze components even in the presence of contamination by water and solids.

It has excellent water separation properties, such that excess water can be drained easily from lubrication systems to help extend the life of the gears and ensure efficient lubrication of the contact areas.

Applications:

An effective sulphur phosphorus additive system to provide an extreme pressure performance which allow trouble-free application in most enclosed industrial gear boxes using steel spur and helical gears.

Suitable for lubrication of bearings and other components in circulating and splash- lubricated systems.

Technical specifications:

PARAMETERS	ASTM	ISO 68	ISO 100	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680	ISO 1000
Appearance	Visual	Bright & Clear							
Color	D 1500	Report							
Den @ 15°C	D 4502	0887	0.891	0.897	0.899	0.903	0.904	0.912	0.931
K.V @ 40°C	D 445	68	100	150	220	320	460	680	1000
K.V @ 100°C	D 445	8.73	11.42	15.08	19.50	25.05	31.05	38.17	47.70
VI	D 2204	99	100	100	100	100	97	92	90
Flash (°C)	D 92	236	240	240	240	255	260	272	290
Pour (°C)	D 97	-24	-21	-21	-19	-18	-12	-9	-6

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DANA TURBINE OIL SERIES

DANA TURBINE OILS have been developed to meet the demands of the most modern non geared steam turbine systems and light duty gas turbines, it is formulated sophistically from high quality hydro treated base oils and a combination of zinc-free additives that provide excellent oxidative stability, protection against rust and corrosion, low foaming and excellent demulsibility.

Features & Benefits:

- The use of inherently oxidative stable base oils together with an effective inhibitor package provides high resistance to oxidative degradation.
- It reduces the possibility of problems such as pump cavitation, excessive wear and premature oil oxidation, helping to give you increased system reliability.
- Robust demulsiblity control such that excess water, common-place in steam turbines, can be drained easily from the lubrication system, minimizing corrosion and premature wear and lowering the risk of unplanned maintenance.

Applications:

- Non-geared industrial steam turbines.
- Non-geared light duty gas turbines.
- Water turbine lubrication.
- Compressor applications.
- Numerous applications where strong control over rust and oxidation is required.

Technical Specifications:

PARAMETERS	ASTM	32	46	68	100
Appearance	Visual	Bright & Clear			
Color	D 1500	Report			
Den @ 15°C	D 4502	0.879	0.882	0.885	0.889
Kinematic Viscosity @ 40°C	D 445	32	46	68	100
Kinematic Viscosity @ 100°C	D 445	5.4	6.7	8.5	10.9
Viscosity Index	D 2204	102	97	94	92
Flash Point (°C)	D 92	218	220	230	240
Pour Point (°C)	D 97	-26	-26	-24	-22
Total Acid Number mg KOH/g	D 664	0.05	0.05	0.05	0.05
Air Release (min)	D 3427	2	4	6	10
Water Demulsiblity (min)	D 1401	15	15	20	20
Copper Corrosion (@100°C/3 Hrs)	D 130	1B	1B	1B	1B
Foaming Sequences					
Sequences I	D 892	20/0	20/0	30/0	30/0
Sequences II		30/0	30/0	20/0	20/0
Sequences III		20/0	20/0	30/0	30/0

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DANA PETROCHEMICALS

SL. NO.:	Alcohols
1	Ethanol
2	Ethanol 99
3	ISo - Butnol
4	ISO - Proponol - 45
5	ISO - Proponol - 99
6	Methano
7	N - Butanol

SL. NO.:	Aromatics
1	Benzene
2	Mix - Xylene
3	Solvent - Naptha 700
4	Solvent - Naptha 150
5	Solvent - Naptha 200
6	Toluene
7	White Spirit

A	Bitumen
1	Cutback Grades
2	Bitumen Cutback Mc - 70
3	Bitumen Cutback Mc - 30

B	Pentration
1	Bitumen - 60/70
2	Bitumen - 30/100

SL. NO.:	Drilling Fluid Chemicals
A	Bactericides & Scavengers
1	BIO CIDEZS
2	NO - Ox65
3	NO - OXEB
4	NO - OXPC100
5	TRUCIDE 5025
6	TRUCIDE GA 25
7	TRUSCAVHS

SL. NO.:	Drilling Fluid Chemicals
B	Completion Fluid
1	Calcium Bromide Power
2	Calcium Bromide Liquid
3	Calcium Chloride 94 - 96%
4	Potassium Choloride
5	Potassium Formate
6	Sodium Bromide Power
7	Sodium Bromide Liquid
8	Sodium Chloride
9	Sodium Formate
10	Zinc Bromodie Power
11	Zinc Bromodie Liquid

SL. NO.:	Glycols
1	DEG - DI Ethylene Glycol
2	TEG - TRI Ethylene Glycol
3	MEG - Monoethylene Glycol

SL. NO.:	Ketones
1	Acetane
2	Hexane
3	MEK - Methyl Ethyl Ketane
4	MIBK - Methyl Isobuty Ketane

SL. NO.:	Waxes
1	Residence Wax
2	Fully - Semi Refined Paraffinwax
3	Slack - Waxes
4	Snow - White Petroleum Jelly
5	White Oil Heavy
6	White Oil LLP - 115

SL. NO.:	Base Oils
1	SN 65
2	SN 70
3	SN 750
4	SN 800
5	BS 150
6	N 500
7	N 600
8	N 750
9	CST - 4
10	CST - 6
11	CST - 8

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OEM SPECIFICATIONS & PERFORMANCE STANDARDS

DIESEL ENGINE OIL Ck4
ITS APPLICATIONS :-

API CJ-4, CI-4 PLUS, CI-4, CH-4, CD, SN, SM, SL, SJ, SH, SG
ACEA E7-12, E9-12
CATERPILLAR ECF-3, ECF-2, ECF-1A
JASO DH-1 AND DH-2
MACK EOS 4.5, EO-O PREMIUM PLUS-07
MAN 3575, 271, 3275
MERCEDES BENZ MB 228.3, 228.5, 229.1, 229.5
RENAULT RLD-4, RLD-3
SCANIA LD-F, LDF-2
VOLVO VDS-4.4, VDS-4

GASOLINE ENGINE OIL SN
ITS APPLICATIONS :-

API SM, SL, SJ, SF, SD, SC, SB, SA
API CF/CF2
ILSAC GF-5, GF-4, GF-3, GF-2
ACEA A3/B3
ACEA A5/B5, A1/B1
ACEA C3, C2
BMW LL-O/M55, LL-04
DAIMLER CHRYSLER MS L395K
FORD M2C 946A, M2C 929A, M2C 205A, M2C 945A
MERCEDES BENZ MB 229.1, 229.32, 229.5, 229.51
VOLKSWAGEN VW 50200, 50300, 50500, 50501, 50700
RENAULT 0700/0710

DIESEL ENGINE OIL CI4
ITS APPLICATIONS :-

API CI-4 PLUS, CI-4, CH-4, CD/SL, SJ, SH, SG
ACEA E7-12, E9-12
CATERPILLAR ECF-3, ECF-2, ECF-1A
DAF
DETROIT DIESEL 93K218, 75E-270, 2000/4000 CAT 1
GLOBAL SPECIFICATION DHD-1
JASO Dh1 AND Dh2
MACK EO-O PREMIUM PLUS-07
MAN 271, 3275
MERCEDES BENZ MB 228.3, 228.31, 228.5, 229.1, 229.5
RENAULT RLD-3
SCANIA LD-F, LDF-2
VOLVO VDS-4

DIESEL ENGINE OIL CJ4
ITS APPLICATIONS :-

API CI-4, CH-4, CG-4, CF-4, CF/SL, SJ,SH
ACEA E7, E5, E4, E3, E2, A3/B4
CATERPILLAR ECF-1, ECF-2, S-3, TO-2
CUMMINS CES 20071, 20076, 20077, 20078
DETROIT DIESSEL 93K214, 72 SE 270
FORD M2C153G
MACK EO-N PREMIUM PLUS 03, EO-N, EO-M PLUS, EO-M
MERCEDES BENZ MB 228.3, 228.31
MAN 271, 3275
VOLVO VDS-3, VDS-2, VDS
JASO DH1

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PICTURE GALLERY

DANA HEAD OFFICE, Dubai

DANA GROUP - Ajman Branch

DANA RETAIL SHOPS, Ajman

DANA SHIVAM HOSPITAL-India

DANA MART HYPERMARKET LLC

DANA STEEL - UAQ Branch

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