

ON-ROAD

	ENGINE SERIES	APPLICATION	HOMOLOGATION	ENGINE OIL	TECHNICAL CHARACTERISTICS	COOLANT	POTENTIAL CHANGE INTERVAL	SUMP (L)	TOTAL REFILLING (L)	COOLING SYSTEM (L)
F1	F1A	Light CV	Euro I - V	URANIA DAILY LS	5W-30 ACEA C2	PARAFLU 11	40.000 km	3,3	4,7	9
	F1C	Light CV	Euro I - V	URANIA DAILY LS	5W-30 ACEA C2	PARAFLU 11	40.000 km	6,6	7,6	9
	F1A	Light CV	Euro VI	URANIA DAILY TEK	0W-30 ACEA C2	PARAFLU HT	with standard oil sump: 50.000 km / 24 months with enlarged oil sump: 60.000 km / 24 months	3,3 4,6	5,4 7,8	9
	F1C	Light CV	Euro VI	URANIA DAILY TEK	0W-30 ACEA C2	PARAFLU HT	50.000 km / 24 months	6,6	7,7	9
	F1C NG	Light CV	Euro VI	URANIA DAILY	5W-30 ACEA B5	PARAFLU HT	40.000 km / 24 months	6,6	7,7	9
NEF	N40	Medium Truck	Euro I - V	URANIA LD7 URANIA FE	15W-40 API CI-4 /ACEA E7 5W-30 ACEA E4 / API CJ-4	PARAFLU 11	Light duty: 80.000km / 18m Medium duty: 60.000km / 18m Severe duty: 40.000km / 18m / 800h	8,3	9,5	8,5
	N60	Medium Truck	Euro I - V	URANIA LD7 URANIA FE	15W-40 API CI-4 /ACEA E7 5W-30 ACEA E4 / API CJ-4	PARAFLU 11	Light duty: 80.000km / 18m Medium duty: 60.000km / 18m Severe duty: 40.000km / 18m / 800h	10,8	13,1	10
	N45	Medium Truck	Euro VI	URANIA LD9 URANIA FE LS	10W-40 API CJ-4 /ACEA E9 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	Light duty: 80.000km / 18m Medium duty: 60.000km / 18m Severe duty: 40.000km / 18m / 800h	8,4 - 10,8	10 - 12,4	7
	N67	Medium Truck	Euro VI	URANIA LD9 URANIA FE LS	10W-40 API CJ-4 /ACEA E9 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	Light duty: 80.000km/18m Medium duty: 60.000km/18m Severe duty: 40.000km/18m/800h	11,8 - 16,6	13,2 - 18,2	11
	N45	Urban Bus	Euro VI	URANIA LD9 URANIA FE LS	10W-40 API CJ-4 /ACEA E9 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	40.000 km / 24m / 2000h	10,8	12,3	7
	N67	Urban Bus	Euro VI	URANIA LD9 URANIA FE LS	10W-40 API CJ-4 /ACEA E9 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	40.000 km / 24m / 2000h	16,6	18,6	11
	N67	Extra Urban Bus	Euro VI	URANIA LD9 URANIA FE LS	10W-40 API CJ-4 /ACEA E9 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	80.000km / 24m / 2000h	16,6	18,6	11
	N60 NG	Medium Truck	Euro V	URANIA ECOSYNTH	10W-40 API CI-4 /ACEA E7	PARAFLU 11	30.000 km / 12 months / 2000 hours	12,2	14,9	11
	NEF6 NG	Medium Truck	Euro VI	URANIA FE LS	5W-30 ACEA E6	PARAFLU HT PARAFLU UP	30.000 km / 12 months / 2000 hours	10,72	12,72	11
	N67 NG	Urban Bus	Euro VI	URANIA ECOSYNTH URANIA FE LS	10W-40 API CI-4 /ACEA E7 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	30.000 km / 12 months / 2000 hours	16,6	18,6	11

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CURSOR	C8	On road Heavy Truck	Euro I - V	URANIA LD7 URANIA FE	15W-40 API CI-4 /ACEA E7 5W-30 ACEA E4 / API CJ-4	PARAFLU 11	100.000 km / 12 months / 1000 hours	22	28	15,5
	C10	On road Heavy Truck	Euro I - V	URANIA LD7 URANIA FE	15W-40 API CI-4 /ACEA E7 5W-30 ACEA E4 / API CJ-4	PARAFLU 11	150.000 km / 12 months	25	32	17,5
	C13	Off road Heavy Truck	Euro I - V	URANIA LD7 URANIA FE	15W-40 API CI-4 /ACEA E7 5W-30 ACEA E4 / API CJ-4	PARAFLU 11	100.000 km / 12 months / 1000 hours	28	35	19,5
	C8 NG	On road Heavy Truck	Euro V	URANIA ECOSYNTH URANIA FE LS	10W-40 API CI-4 /ACEA E7 5W-30 ACEA E6	PARAFLU 11	60.000 km / 12 months	31	36	15,5
	C8 NG	Urban Bus	Euro VI	URANIA FE LS	5W-30 ACEA E6	PARAFLU HT PARAFLU UP	40.000 km / 2000 h / 1 y (Heavy: > 12 km/h) 30.000 km / 2000 h / 1 y (Super Heavy: > 8 km/h)	31	36	15,5
	C9	On road Heavy Truck	Euro VI	URANIA LD9 URANIA FE LS	10W-40 API CJ-4 /ACEA E9 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	100.000 km / 12 months / 2000 hours	25	28	22
	C9	Mixed mission Heavy Truck	Euro VI	URANIA LD9 URANIA FE LS	10W-40 API CJ-4 /ACEA E9 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	50.000 km / 12 months / 1000 hours	25	28	22
	C9	Off road Heavy Truck	Euro VI	URANIA LD9 URANIA FE LS	10W-40 API CJ-4 /ACEA E9 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	100.000 km / 12 months / 1000 hours	25	28	22
	C9	Urban Bus	Euro VI	URANIA LD9 URANIA FE LS	10W-40 API CJ-4 /ACEA E9 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	60.000 km / 24 months / 3500 hours	24	26,5	14,7
	C9	Extra Urban Bus	Euro VI	URANIA LD9 URANIA FE LS	10W-40 API CJ-4 /ACEA E9 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	120.000 km / 24 months / 3000 hours	37	39	22
	C9	Tourism /Coach	Euro VI	URANIA LD9 URANIA FE LS	10W-40 API CJ-4 /ACEA E9 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	150.000 km / 24 months / 2500 hours	35	39	NA
	C9 NG	On road Heavy Truck	Euro VI	URANIA FE LS	5W-30 ACEA E6	PARAFLU HT PARAFLU UP	75.000 km / 12 months	30,5	37	15,5
	C9 NG	Urban Bus	Euro VI	URANIA FE LS	5W-30 ACEA E6	PARAFLU HT PARAFLU UP	City: 40.000 km / 12 m / 2000 h Intercity: 60.000 km / 12 m / 2000h	35	39	NA
	C11	On road Heavy Truck	Euro VI	URANIA NEXT URANIA FE LS	0W-20 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	150.000 km / 18 months	26	28,5	22
	C11	Mixed mission Heavy Truck	Euro VI	URANIA FE LS	5W-30 ACEA E6	PARAFLU HT PARAFLU UP	75.000 km / 12 months	26	28,5	22
	C13	On road Heavy Truck	Euro VI	URANIA NEXT URANIA FE LS	0W-20 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	150.000 km / 18 months	28	30,5	22
	C13	Mixed mission Heavy Truck	Euro VI	URANIA NEXT URANIA FE LS	0W-20 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	75.000 km / 12 months	28	30,5	22
	C13	Off road Heavy Truck	Euro VI	URANIA LD9 URANIA FE LS	10W-40 API CJ-4/ACEA E9 5W-30 ACEA E6	PARAFLU HT PARAFLU UP	100.000 km / 12 months / 1000 hours	28	30	NA
	C13 NG	On road Heavy Truck	Euro VI	URANIA FE LS	5W-30 ACEA E6	PARAFLU HT PARAFLU UP	90.000 km / 12 months	28	30,5	44

**OILS AND COOLANTS
A SERVICE BY AMS**

OFF-ROAD

ENGINE SERIES	APPLICATION	HOMOLOGATION	ENGINE OIL	TECHNICAL CHARACTERISTICS	COOLANT	POTENTIAL CHANGE INTERVAL	SUMP (L)	TOTAL REFILLING (L)	COOLING SYSTEM (L)	
S8000	S8000	AG	Tier 1 / Tier 2 / Tier 3	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	300 hours	10	12,7	11,5
	S8000	CE	Tier 3	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours	7 for 3 cylinders 8.6 for 4 cylinders	8 for 3 cylinders 9.6 for 4 cylinders	11
	S8000	AG	Tier 4 int / Stage IIIB Tier 4 final / Stage IV Tier 4 final / Stage V	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	600 hours	6.9 for 3 cylinders 7.9 for 4 cylinders	8.7 for 3 cylinders 9.7 for 4 cylinders	6,5
F5	F32	AG	Tier 2 / Stage IIA Tier 3 / Stage IIIA	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	600 hours	8,1	9,5	4,3
	F32	CE	Tier 2 / Stage IIA Tier 3 / Stage IIIA	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours	9,5	11,5	4,3
	F34	AG	Tier 4 int / Stage IIIB Tier 4 final / Stage IV Tier 4 final / Stage V	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	600 hours	8,1 8 - 8,1 8 - 8,1	9,5 9 - 9,5 9 - 9,5	5
	F36	AG	Tier 4 final / Stage V	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	600 hours	8,1 8 - 8,1 8 - 8,1	9,5 9 - 9,5 9 - 9,5	5
	F28	AG	Tier 4 final / Stage V	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	600 hours	6,5	8	NA
	F5C	CE	Tier 3	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU HT	500 hours	8,1	9,5	5
	F5C	CE	Tier 4 Final	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	500 hours	8,1	9,5	5

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NEF	N45	AG / CE	Tier 2 / Stage IIA Tier 3 / Stage IIIA	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	AG: 600 hours / 1year CE: 500 hours / 1year	9,8 - 10,6 9,8 - 14	12 - 14,4 12 - 20	7
	N45	AG / CE	Tier 4 int / Stage IIIB Tier 4 final / Stage IV Tier 4 final / Stage V	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	AG: 600 hours / 1year CE: 500 hours / 1year AG with extended drain oil filters: 1200 hours CE with extended drain oil filters: 1000 hours	9,8 - 10,6 9,8 - 14 9,8 - 14	12 - 14,4 12 - 20 12 - 20	7
	N67	AG / CE	Tier 2 / Stage IIA Tier 3 / Stage IIIA	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	AG: 600 hours / 1year CE: 500 hours / 1year	13,5 - 14 13,5 - 20,5 13,5 - 20,5	16 16 - 22 16 - 22	11
	N67	AG / CE	Tier 4 int / Stage IIIB Tier 4 final / Stage IV Tier 4 final / Stage V	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	AG: 600 hours / 1year CE: 500 hours / 1year AG with extended drain oil filters: 1200 hours CE with extended drain oil filters: 1000 hours	13,5 - 14 13,5 - 20,5 13,5 - 20,5	16 16 - 22 16 - 22	11
CURSOR	C8	AG / CE	Tier 2 / Stage IIA Tier 3 / Stage IIIA	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	AG: 600 hours CE: 500 hours	22	28	15,5
	C9	AG / CE	Tier 2 / Stage IIA Tier 3 / Stage IIIA	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	AG: 600 hours CE: 500 hours Tier 3 Brazil: 300 hours	22	26	22
	C9	AG / CE	Tier 4 int / Stage IIIB	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	AG: 600 hours / 1year CE: 500 hours / 1year	22	26	22
	C9	AG / CE	Tier 4 final / Stage IV	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	AG: 600 hours / 1year CE: 500 hours / 1year	22	26	22
	C9	AG / CE	Tier 4 final / Stage V	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	AG: 600 hours / 1year CE: 500 hours / 1year	22	26	22
	C11	AG	Tier 2 / Stage IIA Tier 3 / Stage IIIA	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	600 hours	25	32	NA
	C11	AG	Tier4f / StIV / StV	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	600 hours / 1year	25	32	NA
	C13	AG	Tier 2 / Stage IIA Tier 3 / Stage IIIA	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	600 hours / 1year	28	35	18,5
	C13	AG	Tier 4 int / Stage IIIB	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	600 hours / 1year	28	35	19,5
	C13	AG	Tier 4 final / Stage IV	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	600 hours / 1year	28	35	22
	C13	AG	Tier 4 final / Stage V	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	600 hours / 1year	28	32	19,5
	VECTOR	C16	AG	Tier 2 / Stage IIA Tier 3 / Stage IIIA	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	600 hours	28	32
C16		AG	Tier 4 final / Stage IV	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	600 hours / 1year	28	35	18,5
VECTOR	V20	AG	Tier 4 final / Stage V	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	600 hours / 1year	51	56	28,7



LUBRICATION CHART



PETRONAS

POWER GEN

ENGINE SERIES	APPLICATION	HOMOLOGATION	ENGINE OIL	TECHNICAL CHARACTERISTICS	COOLANT	POTENTIAL CHANGE INTERVAL	SUMP (L)	TOTAL REFILLING (L)	COOLING SYSTEM (L)	
S8000	GS	NO	URANIA LD7	15W-40 API CI-4 /ACEA E7	PARAFLU 11	600 hours / 1 year	7,7	8,8	9	
F5	F32	G-DRIVE	NO	URANIA LD7	15W-40 API CI-4 /ACEA E7	PARAFLU 11	600 hours	9,5	11,5	NA
	F32	G-DRIVE	Stage II	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours (std.) 600 hours (prem.)	9,5	11,5	NA
	F32	G-DRIVE	Tier 3 /Stage III A	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours (std.) 600 hours (prem.)	9,5	11,5	NA
	F34	G-DRIVE	Tier 4F / Stage V	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	600 hours	8	9,5	NA
NEF	N45	G-DRIVE	NO	URANIA LD7	15W-40 API CI-4 /ACEA E7	PARAFLU 11	600 hours	11,5	12,8	8,5
	N45	G-DRIVE	Stage II	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours (std.) 600 hours (prem.)	8,5	12,8	10
	N45	G-DRIVE	Tier 3 /Stage III A	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours (std.) 600 hours (prem.)	8,5	12,8	10
	N67	G-DRIVE	NO	URANIA LD7	15W-40 API CI-4 /ACEA E7	PARAFLU 11	600 hours	15,2	17,2	10,5
	N67	G-DRIVE	Stage II	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours (std.) 600 hours (prem.)	15	17,2	25
	N67	G-DRIVE	Tier 3 /Stage III A	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours (std.) 600 hours (prem.)	15	17,2	25
	N67	G-DRIVE	Tier 4F / Stage V	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	600 hours	14	18	NA

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CURSOR	C87	G-DRIVE	NO	URANIA LD7	15W-40 API CI-4 /ACEA E7	PARAFLU 11	600 hours	23	28	48
	C87	G-DRIVE	Stage II	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours (std.) 600 hours (prem.)	23	28	48
	C87	G-DRIVE	Tier 3 /Stage III A	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours (std.) 600 hours (prem.)	23	28	48
	C87	G-DRIVE	Tier 4F / Stage V	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU HT	600 hours	23	28	48
	C10	G-DRIVE	Tier 3 /Stage III A	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours (std.) 600 hours (prem.)	24	30	48
	C10	G-DRIVE	Tier 3 /Stage III A	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours (std.) 600 hours (prem.)	24	30	48
	C13	G-DRIVE	NO	URANIA LD7	15W-40 API CI-4 /ACEA E7	PARAFLU 11	600 hours	27	35	48
	C13	G-DRIVE	Stage II	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours (std.) 600 hours (prem.)	27	35	48
	C13	G-DRIVE	Tier 3 /Stage III A	URANIA LD7 URANIA LD9	15W-40 API CI-4 /ACEA E7 10W-40 API CJ-4 /ACEA E9	PARAFLU 11	500 hours (std.) 600 hours (prem.)	27	35	48
	C16	G-DRIVE	No Emissioned	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFLU 11	600 hours	32	34	Engine: 27 G-DRIVE: 52,5

**OILS AND COOLANTS
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MARINE

ENGINE SERIES	APPLICATION	HOMOLOGATION	ENGINE OIL	TECHNICAL CHARACTERISTICS	COOLANT	POTENTIAL CHANGE INTERVAL	SUMP (L)	TOTAL REFILLING (L)	COOLING SYSTEM (L)	
F1	F1C	Marine	Tier2 / Stage IIIA	URANIA LD 7	15W-40 API CI-4 /ACEA E7	PARAFU 11	600 hours	5,3 - 6,8	7,5	14
NEF	N40ENTM	Marine	Tier2 / Stage II	URANIA LD 7	15W-40 API CI-4 /ACEA E7	PARAFU 11	600 hours	11,3	12,5	21,5
	N45MNAM	Marine	Stage I	URANIA LD 7	15W-40 API CI-4 /ACEA E7	PARAFU 11	250 hours / 1 year	7,7 - 9,9	11,5	21
	N60ENTM	Marine	Tier2 / Stage IIIA	URANIA LD 7	15W-40 API CI-4 /ACEA E7	PARAFU 11	600 hours	14,5	16,5	24,5
	N67ENTM	Marine	Tier2 / Stage IIIA	URANIA LD 7	15W-40 API CI-4 /ACEA E7	PARAFU 11	600 hours	14,5	16,5	24,5
	N67ENTMW	Marine	Tier2 / Stage IIIA	URANIA LD 7	15W-40 API CI-4 /ACEA E7	PARAFU 11	600 hours	11,5 - 17	19	24,5
	N67MNAM	Marine	No Emissioned	URANIA LD 7	15W-40 API CI-4 /ACEA E7	PARAFU 11	600 hours	9 - 14,5	16,5	22,5 24,5
CURSOR	C87ENTM	Marine	Tier2 / Stage IIIA	URANIA LD 7	15W-40 API CI-4 /ACEA E7	PARAFU 11	300 hours	15,5 - 24	28	38
	C90ENTM	Marine	Tier2 / Stage IIIA	URANIA LD 7	15W-40 API CI-4 /ACEA E7	PARAFU 11	300 hours	28 - 34	32,5	41,4
	C13	Marine	Tier2 / Stage IIIA	URANIA LD 7	15W-40 API CI-4 /ACEA E7	PARAFU 11	600 hours	29 - 36	42	45
	C16	Marine	Tier2 / Stage II, TIER 3 Commercial	URANIA LD9	10W-40 API CJ-4 /ACEA E9	PARAFU 11	600 hours	34 - 42	46	60

The values shown are for reference and indicate the maximum ranges that can be reached in each application. We invite you to refer to the official FPT documentation to identify the precise data referring to your engine.