NANNI PROPULSION ENGINES & N2, N3, N4

DESCRIPTION				LUBRICATION				COOLING			
Models	kW	HP	rpm	Capacity carter	Frequency	Norm	Recommended products	Capacity	Frequency	Composition	Recommended products
2.45 HE & ECO	7,36	10	3600	2,1	Replacement every 250 hours or every year, on the first due date	*15W40* *API CF* *Minimum*	**INBOARD 4T** 15W40 106359 - 4x5 L 101740 - Bulk	2,7	Replacement every 500 hours or every year, on the first due date	Mixture 50 % Pure Anti freeze + 50 % Water	**HD COOL TEK** 108802 - 208 L 108803 - 1000 L **AUTO COOL OPTIMAL** -25°C 112635- 208 L **AUTOCOOL OPTIMAL** -37°C 112620 - 12x1 L 112621 - 4x5 L 112622 - 20 L 112639 - 208 L 112641 - 1000 L
N2.10	7,36	10	3000	1,9				2,7			
2.50 HE	10,3	14	3600	2,1				2,7			
N2.14	10,3	14	3600	1,9				4,0			
3.75 HE	15,4	14	3600	3,3				4,0			
N3.21	15,4	21	3600	3,0				4,0			
3.100 HE	21,3	21	3600	4,5				4,0			
N3.30	21,3	29	3600	4,5				5,0			
4.150 HE	27,6	29	3000	5,0				5,0			
N4.38	27,6	37,5	3000	5,0				5,0			
4.195 HE	29,4	37,7	2800	7,5				9,0			
N4.40	29,4	40	2800	7,5				9,0			
4.200 HE	31,6	40	2800	7,5				9,0			
4.220 HE	36,8	43	2800	7,5				9,0			
N4.50	36,8	50	2800	7,5				9,0			
4.200 TD	44,2	60	2800	9,0				9,0			
N4.60	44,2	60	2800	9,0				9,0			
5.280 HE	45,6	62	2800	12,0				11,0			
N4.65	43,4	59	2700	7,6				9,0			
N4.80 SD	52,9	72	2700	7,6				9,0			
N4.80	57,4	79	2700	7,6				9,0			
5.250 TDI	62,9	85	2800	12,0				11,0			
N4.85	62,9	85	2800	9,0				9,5			
N4.100	73,6	100	2800	9,0				9,5			
4.330 TDI	84,6	115	2600	13,2				11,0			
4.340 TDI	95,7	130	2600	13,2				12,0			
N4.115	84,5	115	2600	13,0				12,0			
N4.140	103	140	2600	13,0				12,0			

(1) Please note: oil capacity (liters) may vary depending on the crankcase option fitted to the engine.
(2) Note: coolant capacity (liters) does not include KEEL COOLING versions.
(3) Choose oil viscosity according to the likely outside temperature until the next oil change. Preferably use multi-grade oils.
(4) If the sulfur content of the diesel fuel used exceeds 5000 mg/kg (5000 ppm), reduce the maintenance interval by half. DO NOT use diesel containing more than 10000 mg/kg (10000 ppm) of sulfur.

NANNI PROPULSION ENGINES T4 to T8V

DESCRIPTION				LUBRICATION				COOLING			
Models	kW	HP	rpm	Capacity carter	Frequency	Norm	Recommended products	Capacity	Frequency	Composition	Recommended products
T4.155	144,1	155	3600	7,7	Replacement Every 250 hours or every year, on the first due date	*15W-40 Classification API CF-4*	**INBOARD 4T 15W40** 106359 - 4x5 l 101740 - BULK	2,7	Replacement Every 500 hours or every year, on the first due date	Mixture 50 % Pure Anti freeze + 50 % Water	**HD COOL TEK** 108802 - 208 L 108803 - 1000 L **AUTO COOL OPTIMAL** -25°C 112635- 208 L **AUTOCOOL OPTIMAL** -37°C 112620 - 12x1 L 112621 - 4x5 L 112622 - 20 L 112639 - 208 L 112641 - 1000 L
4.380 TDI	128,8	175	3600	7,7				2,7			
4.390 TDI	147,2	200	3600	7,7				2,7			
T4.165	128,8	180	3400	7,0				4,0			
T4.180	128,8	180	3400	7,0				4,0			
T4.200	147,2	200	3400	7,0				4,0			
Z6.300	202,3	275	3600	11,4				4,0			
T6.280	206	280	3600	11,4				5,0			
T6.300	220,8	300	3600	11,4				5,0			
6.420 TDI	235,5	320	3600	11,4				5,0			
T4.205	147,2	200	3600	7,0				9,0			
T4.230	169,1	230	3600	7,0				9,0			
T4.270	194,9	265	3600	7,0				9,0			
T8V.320	235,4	320	3800	10,0				9,0			
T8V.350	257,4	350	3800	10,0				9,0			
T8V.370	272,1	370	3800	10,0				9,0			

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(2) Note: coolant capacity (liters) does not include KEEL COOLING versions.
(3) Choose oil viscosity according to the likely outside temperature until the next oil change. Preferably use multi-grade oils.
(4) If the sulfur content of the diesel fuel used exceeds 5000 mg/kg (5000 ppm), reduce the maintenance interval by half. DO NOT use diesel containing more than 10000 mg/kg (10000 ppm) of sulfur.
(5) Same applies for «Stern-Drive» version.

NANNI PROPULSION ENGINES N5 to N13 CR2

DESCRIPTION				LUBRICATION				COOLING			
Models	kW	HP	rpm	Capacity carter	Frequency	Norm	Recommended products	Capacity	Frequency	Composition	Recommended products
N5.150	112	152	2600	13	<u>100-hour</u> replacement: If John Deere engine break-in oil Break-In™ or Break-In Plus™ is not available, use a engine oil viscosity SAE 10W-30 meeting one of the classifications: -API CE, CD, CC or ACEA E2. Replacement every 250 hours or every year : at the first due date.	Preferably use John Deere Plus-50™ II oil. John Deere Plus-50™ oil is also recommended. Other oils may be used if they meet at least one of the following specifications: •John Deere Torq-Gard™ • Classifications API CJ-4, CI-4 Plus, CI-4, CH-4, CG-4, CF-4. •Norms ACEA E9, E7, E6, E5, E4, E3, E2. If oils conforming to API, CF-4 or ACEA CG-4, CF-4 or ACEA E2 are used, halve the service interval.	**Tekma MEGA+** *15w-40,* *108641 - 4x5 L* *108589 - 20 L* *108592 - 208 L* *108593 - 1000 L* *Possible use:* **Tekma Ultima+** *10W-40 (better cold start thanks to lower viscosity viscosity grade)* *110959 - 4x5 L* *110960 - 20 L* *110936 - 208 L* *110937 - 1000 L* *110958 - BULK*	14	Control antifreeze concentration every year or 500 hours. Coolant replacement every 6000 hours or every four years, whichever comes first.	Mix 50 % Pure Antifreeze + 50 % water	**HD COOL TEK** 108802 - 208 L 108803 - 1000 L **AUTO COOL OPTIMAL** -25°C 112635- 208 L **AUTOCOOL OPTIMAL** -37°C 112620 - 12x1 L 112621 - 4x5 L 112622 - 20 L 112639 - 208 L 112641 - 1000 L **ESSENTIAL** 112828 - 4x5 L 112829 - 208 L 112830 - 1000 L
N5.140 E	101	137	2600	15				14			
N5.160 CR2	119	160	2300	18				17			
N5.180 CR2	134	182	2400	18				17			
N5.200 CR2	149	202	2500	18				17			
N5.230 CR2	168	228	2600	18				17			
N6.160	115	156	2300	19,5				19			
N6.180	131	177	2400	19,5				19			
N6.200	149	202	2500	19,5				19			
N6.230	168	228	2600	19,5				19			
N6.285 CR2	209	284	2500	19				28			
N6.325 CR2	239	325	2600	19				28			
N6.360 CR2	265	360	2700	19				28			
N6.405 CR2	298	405	2800	31				28			
N9.330 CR2	242	329	2100	31				28			
N9.380 CR2	280	380	2200	31				28			
N9.430 CR2	317	431	2300	31				43			
N9.510 CR2	373	507	2400	31				43			
N9.600 CR2	424	560	2500	31				43			
N13.430 CR2	317	431	1800	41				43			
N13.510 CR2	373	507	1900	41				43			
N13.580 CR2	429	583	2000	41				43			
N13.660 CR2	485	659	2100	41				43			
N13.800 CR2	559	760	2200	41				43			

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(2) Note: coolant capacity (liters) does not include KEEL COOLING versions.
(3) Choose oil viscosity according to the likely outside temperature until the next oil change. Preferably use multi-grade oils.
(4) If the sulfur content of the diesel fuel used exceeds 5000 mg/kg (5000 ppm), reduce the maintenance interval by half. DO NOT use diesel containing more than 10000 mg/kg (10000 ppm) of sulfur."
(5) Same applies for «Stern-Drive» version.

NANNI PROPULSION ENGINES N13 700 CR3 to N16 1200 CR3

DESCRIPTION				LUBRICATION				COOLING			
Models	kW	HP	rpm	Capacity carter	Frequency	Norm	Recommended products	Capacity	Frequency	Composition	Recommended products
N13.700 CR3	515	700	2300	45	Replacement every year or 500 hours at first due date.	Recommended engine oil: Scania LDF-3 Scania LDF-2 scania LDF Scania E7. Engine oil must meet the following the following criteria: Requirements: ACEA E5 / API CI-4 ACEA E7 / API CI-4+ For motors not running on low-sulphur fuel, the TBN (Total Base Number) must be at least 12 (ASTM D2896). Oils not low-ash content (ACEA E9 / API CJ4) are not recommended.	**Tekma Ultima+ 10W-40** *106455 - 4x5 L* *105738- 20 L* *103696 - 208 L*	40	Control antifreeze concentration every year or 500 hours. Coolant replacement: every 6000 hours or every four years, whichever comes first.	Mix 50 % Pure Antifreeze + 50 % water	**HD COOL TEK** 108802 - 208 L 108803 - 1000 L **AUTO COOL OPTIMAL** -25°C 112635- 208 L **AUTOCOOL OPTIMAL** -37°C 112620 - 12x1 L 112621 - 4x5 L 112622 - 20 L 112639 - 208 L 112641 - 1000 L
N13.800 CR3	588	850	2300	45				40			
N13.900 CR3	680	930	2300	45				40			
N16.900 CR3	662	900	2300	48				63			
N16.1000 CR3	736	1000	2300	48				63			
N16.1100 CR3	809	1100	2300	48				63			
N16.1150 CR3	846	1150	2300	48				63			
N16.1200 CR3	882	1200	2300	48				63			

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(2) Note: coolant capacity (liters) does not include KEEL COOLING versions.
(3) Choose oil viscosity according to the likely outside temperature until the next oil change. Preferably use multi-grade oils.
(4) If the sulfur content of the diesel fuel used exceeds 5000 mg/kg (5000 ppm), reduce the maintenance interval by half. DO NOT use diesel containing more than 10000 mg/kg (10000 ppm) of sulfur.
(5) Same applies for «Stern-Drive» version.

MAN PROPULSION ENGINES

DESCRIPTION				LUBRICATION				COOLING			
Models	kW	HP	rpm	Capacity carter	Frequency	Norm	Recommended products	Capacity	Frequency	Composition	Recommended products
4.440 E	73,6	100	2700	13,0	Replacement every 400 hours or every year on the first due date.	*API CF minimum 15W-40 Classification* *MAN requirement 271 or 3275*	**INBOARD TECH 4T** 15W40 106359 - 4x5 l 101740 - BULK	21.5	Coolant replacement every 500 hours or every two years, whichever comes first.	Mix 50 % Pure Antifreeze + 50 % Water	**HD COOL TEK** 108802 - 208 L 108803 - 1000 L **AUTO COOL OPTIMAL** -25°C 112635- 208 L **AUTOCOOL OPTIMAL** -37°C 112620 - 12x1 L 112621 - 4x5 L 112622 - 20 L 112639 - 208 L 112641 - 1000 L
6.660 E	110	150	2700	11,0				28			
6.660 LE	228	310	2600	11,0				30			

(1) Please note: oil capacity (liters) may vary depending on the crankcase option fitted to the engine.
(2) Note: coolant capacity (liters) does not include KEEL COOLING versions.
(3) Choose oil viscosity according to the likely outside temperature until the next oil change. Preferably use multi-grade oils.
(4) If the sulfur content of the diesel fuel used exceeds 5000 mg/kg (5000 ppm), reduce the maintenance interval by half. DO NOT use diesel containing more than 10000 mg/kg (10000 ppm) of sulfur.
(5) Same applies for «Stern-Drive» version.