

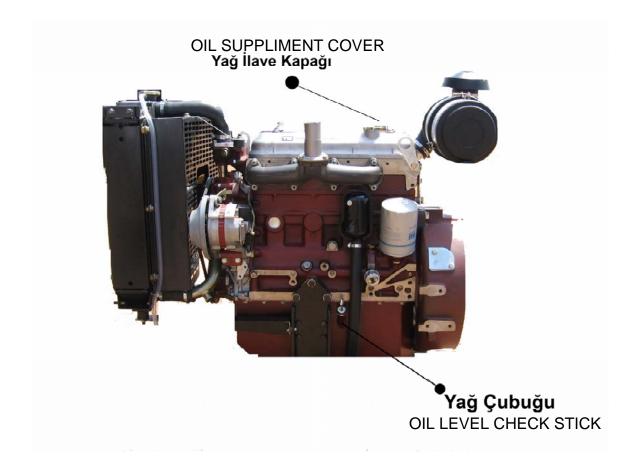
D 3100 / D3104 & D4100/D4104 Series Engines



DIESEL ENGINE USER & MAINTENANCE MANUAL

YAVUZ DİZEL MOTORLARI DIESEL ENGINES

OIL LEVEL CHECK

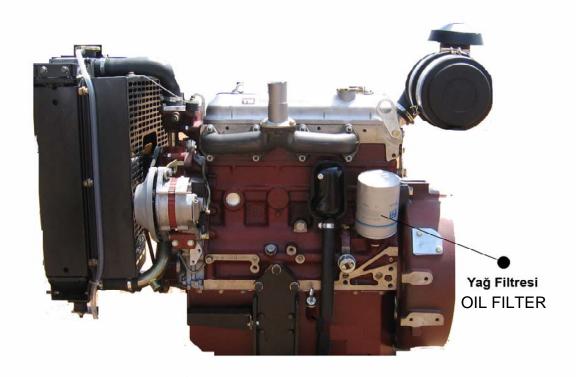


Oil Level Check

Check if there is any leakage of oil or water at the outside of the engine. Check double times the level of oil from oil level stick. If the level is below the bottom sign of the level stick please add oil from top as seen on the picture until oil level reaches to mid of low high level of level stick.



ENGINE OIL AND OIL FILTER CHANGE

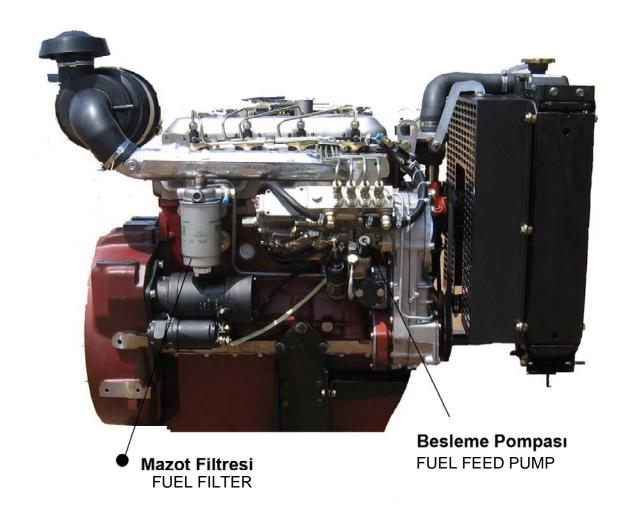


Oil And Oil Filter Change

Replace the oil and oil filter on periods mentione on the periodic maintenance manual. Do not forget the very first oil filter replacement is after 50 Hours of engine run. Use original oil filters. After replacement tighten the filter by turning 3/4 times after reaching to tightening point.



FUEL FILTER CHANGE

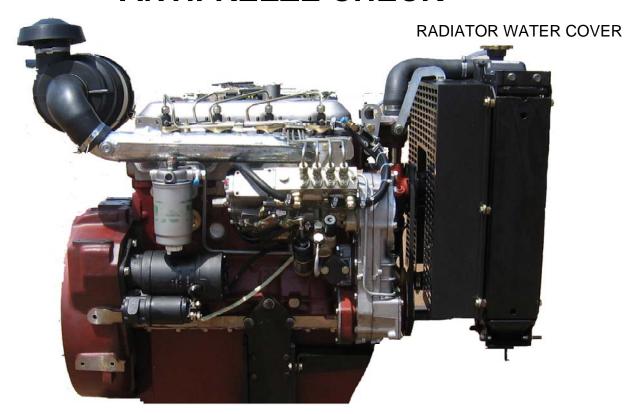


Fuel Filter Change

Be careful to avoid heat sources during replacement of fuel filters. During loosining of fuel filter some amount of fuel may leak. After replacement of fuel filter by using the fuel feed pump evacuate the air inside the fuel pipes of the engines.



COOLING WATER AND ANTIFREEZE CHECK



Cooling Water and Antifreeze Level Check

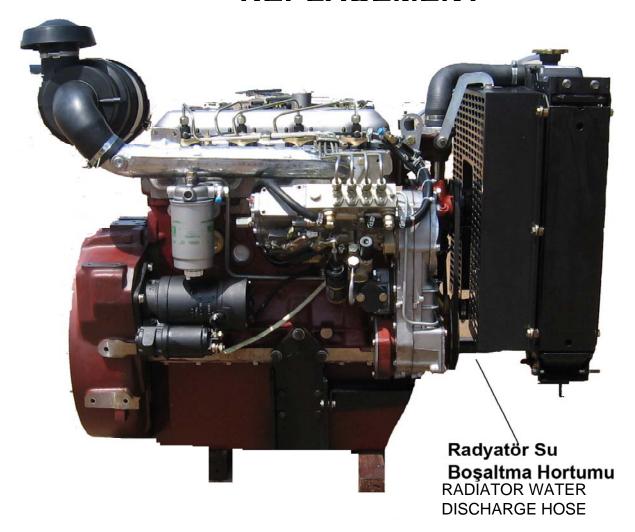
Check antifreeze ratio before winter. Always add antifreeze according to -10⁰ C less than min level recorded in the area. Check the radiators fins if it is enough clean or not. If dirty please clean with pressurized water.

If your engine is under cover or installed in a closed area then strictly apply the regulations or rules of the applicant compnay which uses our engine.

WARNING: Never use salty or limed water in the radiator.



RADIATOR WATER REPLACEMENT



Radiator Water Replacement

Discharge the water inside the radiator by using the hose seen in the picture. Eventhough the engine runs in hot weather conditions add some antifreeze to water to avoid corrosion.

WARNING: Never use salty or limed water in the radiator.



Air Filter Check

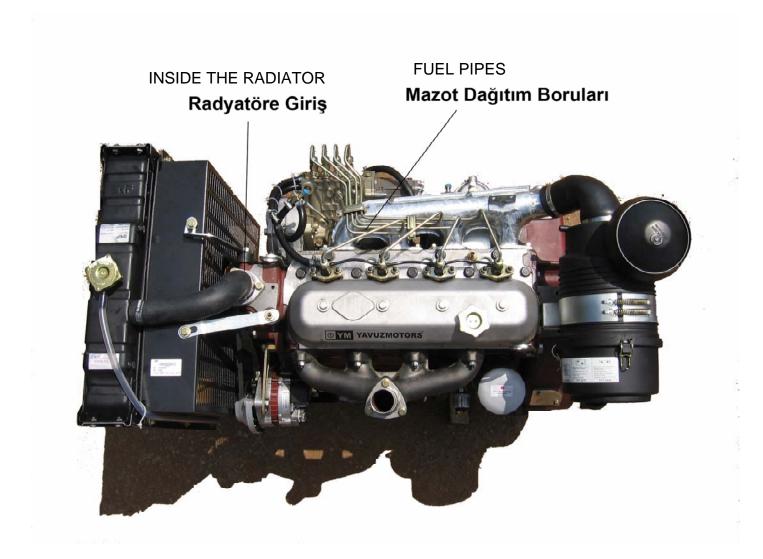


Air Filter Check

If you use your engine under dirty conditions frequently check your air filter as seen in picture. Give pressureized air through inside the air filter. Please keep in mind that engine performance is directly related with the amount of water sucked in to the engine.



Checking of Hoses and Pipes

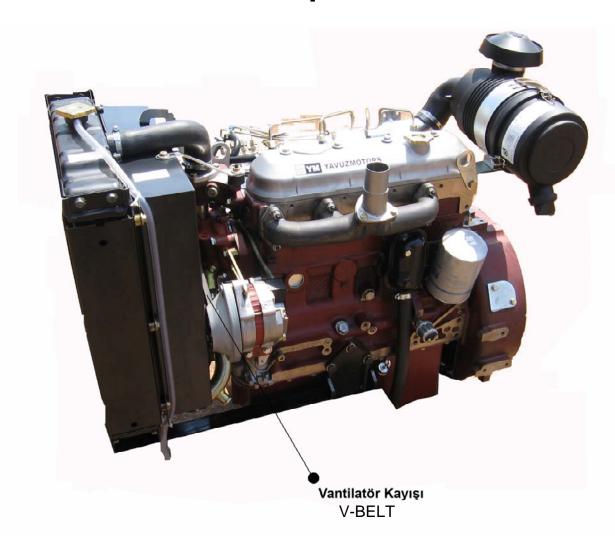


Checking of Hoses and Pipes

Chek the tightness of the fuel pipes connections and adapters by using a suitable wrnech. Also check the tightness of the clamps of radiators hoses.



V-Belt Replacement

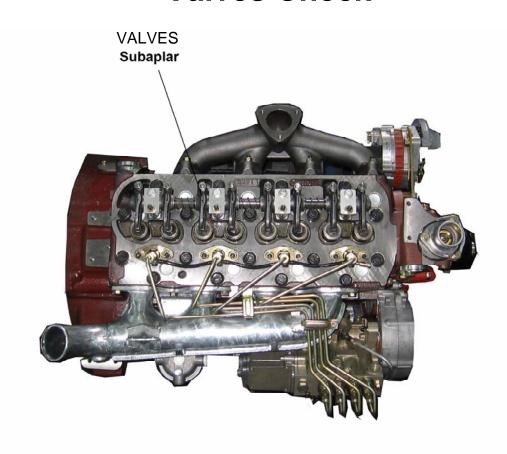


V-Belt Replacement

Replace the v-belt without removing the radiator. It is posible to to this. After replacing the v-blet tighten the belt via alternator. The tightness of the v-belt can be check as follows: The belt shall move 1-2 cm towards the crankshaft pulley when check at the midway of the longest visible length.



Valves Check



Valves Check

Disassemble the upper cover of cylinder head. Adjust valve and rocker arm gaps.

When engine is hot:

Intake: 0.25 mm Exhaust: 0.35 mm

When engine is cold:

Intake: 0.30 mm Exhaust: 0.40 mm

WARNING: Adjustment of valves by unexperienced personel may cause serious damages to your engine.!



YAVUZ DİZEL MOTORLARI DIESEL ENGINES

WARNINGS

Condition	Description	To Do
If the engine will not run for a long period	■ayet motorunuz 1 ay veya daha fazla bir süre çalı∎mayacak ise yakıt deposuna Koruyucu dizel motor katkısı kullanmanız tavsie olunur. Aksi takdirde dizel yakıtının kalitesine göre enjeksiyon pompasının iç kısımlarında korozyon veya paslanma meydana gelebilir ve enjeksiyon pompaıs arıza yapabilir * Bu durum sadece yıldız pompalar için geçerlidir	Add diesel fuel additive to your fuel tank and run the engine 5-10 minutes
Cooling Water	Motor so utma suyu içerisine kesinlike antiriz koyunuz. Bu hem motorun iç çeperlerini paslanmadan koruyacak hemde sıfırın altına inen sıcaklıklarda motor blo unun patlamasını engelleyecektir.	



OIL STANDARTS

TEMPERATURE

OIL STANDART

-20⁰C Below level

SAE 5 W - 30

operating conditions

Above Level

 -20^{0} C

çalı∎ma ortamlarında

SAE 15W-40-CH4 Sinifi

YM

YAVUZ DİZEL MOTORLARI DIESEL ENGINES

WARRANTY

- 1. During the warranty period do all the maintenance and repair operations through yopur seller's authorized service except periodic maintenance. Your engine mayd damage seriously if unexperienced and unauthorized personel do the job. This may lead to out of warranty condition.
- 2. Use original parts. Otherwise it may lead to damage of your engine without warranty.
- 3. Use quality fuel in your engine. Using bad fuel or different fuels may lead to damaging of fuel pump and fuel injectors out of warranty.
- 4. Use standart oil mentioned on this user manual.
- 5. Your engine is under guarantee. In case of problem please inform your sellers technical service immediately. Your problem will be solved as soon as possible.
- 6. Thank you for choosing Yavuz Motor

YAVUZ MOTOR PERIODIC MAINTENANCE TABLE

	Hour	20	100	200 2	250 30	300 400	002 00	0 600	750	800	006	1000	1100	1200	1250	1300	1400	1500	1600	1700	1750	1800	1900	2000	2100	2200	2250 2	2300	2400
	То Do																												
-	1 Oil Level Check	×	×	×	^ ×	× ×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
2	Oil and Oil Filter Change	×	×	×	^	× ×	×	×		×	×	×	×	×		×	×	×	×	×		×	×	×	×	×		×	×
3	Oil Filter Change	×	×	×	^	×	×	×		×	×	×	×	×		×	×	×	×	×		×	×	×	×	×		×	×
4	Fuel Filter Change	×	×	×	^	× ×	×	×		×	×	×	×	×		×	×	×	×	×		×	×	×	×	×		×	×
5	Cooling Water and Antifreeze Check	×	×	×	^	× ×	×	×		×	×	×	×	×		×	×	×	×	×		×	×	×	×	×		×	×
9	Cooling Water Replacement									×									×										×
7	Air Filter Check		×	×	^	×	×	×		×	×	×	×	×		×	×	×	×	×		×	×	×	×	×		×	×
8	Hoses & Fuel Pipes Check				×		×		×			×			×			×			×			×			×		
6	V-Belt Replacement				×		×		×			×			×			×			×			×			×		
10	Valves Check				×		×		×			×			×			×			×			×			×		



YAVUZ DİZEL MOTORLARI DIESEL ENGINES

YAVUZ MOTOR AUTHORIZED SERVICES