

## GENERAL MAINTENANCE INSTRUCTION NO. 202

### PERIODICITY OF CHANGE OF ENGINE OIL AND FILTER ELEMENT OF KIRLOSKAR OIL ENGINES FITTED TO VARIOUS EQPT/PLANTS

#### 1. INTRODUCTION

Timely changing of engine oil and elements of oil, fuel filters and Air cleaner is mandatory to obtain maximum life from engine and to arrest frequent failures of engine assys. Eqpt like JCB Excavator, Marshall Stone Crusher, Vibratory Compactors/ tendem vib Road Rollers, L&T Excavators, Gen set, water pumps etc being inducted to the organisation are mostly powered by various models of Kirloskar oil engines. The defect reports of these eqpt received from project were analyzed at this Dte and it is revealed that most of these failures were attributed to non adherence of correct periodicity of change of engine oil and Air cleaner filter elements.

#### 2. AIM

The aim of this instruction is to lay down the periodicity for change of engine oil and elements of filters for the different systems of different models of KOEL engines fitted to various eqpt held with the Organisation.

#### 3. ACTION BY

(i) Fd Wksp - Fd Wksp may ensure that adequate quantity of filters/filter element are available in their stock for issue of the same to the users for changing as per the laid down periodicity.

(ii) User Units - User units will ensure that the operators and personnel associated with maintenance of eqpt are properly educated about the importance/necessity of timely change of oil and filter elements and they may also ensure that the periodicity of change of above vital items/parts are strictly adhered to.

#### 4. DETAILS

The details of periodicity of the change of engine oil, elements of oil, fuel and Air filter in respect of KOEL engines of model RB-44 TC, RB-33 and HA series engines (i.e. HA 294 to HA 694 series engines) are given in appendix-‘A’ enclosed. However, the frequency of change of oil, fuel and Air filters elements may be varied according to the site conditions.

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PERIODICITY OF THE CHANGE OF OIL FILTER ELEMENTS OF KIRLOSKAR OIL ENGINES

S/No	Lub oil/filters	RB-44 TC (JCB Excavator )	RB-44 (L&T Excavator )	RB-44 (Marshall Stone crusher)	RB-33 (Gen set)	HA- 494/694 (For all applicatio ns)	HA-294/394 (For all applications)	Remarks
1	2	3	4	5	6	7	8	9
1.	Lub oil :-							
	(a) First change	50 Hrs	50 Hrs	50 Hrs	50 Hrs	50 Hrs	50 Hrs	Note :- Frequency of change of Fuel and air filters element be however detined according to the site. Condition. In any case the periodicity of changes will not exceed the laid down limit.
	(b) Subsequent change at every	250 Hrs	250 Hrs	250 Hrs	250 Hrs	200 Hrs	200 Hrs	
2.	Lub oil filter :-							
	(a) First change	50 Hrs	50 Hrs	50 Hrs	50 Hrs	50 Hrs	50 Hrs	
	(b) Subsequent changes at every	250 Hrs	250 Hrs	250 Hrs	250 Hrs	200 Hrs	200 Hrs	
3.	Fuel filter change							
	(a) Primery	500 Hrs	500 Hrs	500 Hrs	500 Hrs	500 Hrs	500 Hrs	
	(b) Secondary	750 Hrs	750 Hrs	750 Hrs	750 Hrs	750 Hrs	750 Hrs	
4.	Air cleaner Dry type							
	(a) Outer element :-	Only	Only	Only when	Only	Only	Only when	
	i) Clean	when chocked	when chocked	chocked	when chocked	when chocked	chocked	

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1	2	3	4	5	6	7	8	9
	ii) Change	At 1000 hrs or after 3 cleaning which ever is earlier	At 1000 hrs or after 3 cleaning which ever is earlier	At 1000 hrs or after 3 cleaning which ever is earlier	At 1000 hrs or after 3 cleaning which ever is earlier	At 1000 hrs or after 3 cleaning which ever is earlier	At 1000 hrs or after 3 cleaning which ever is earlier	
5	Inner element							
	i) Clean	No Cleaning	No Cleaning	No Cleaning	No Cleaning	No Cleaning	No Cleaning	
	ii) Change	Alongwith outer element	Alongwith outer element	Alongwith outer element	Alongwith outer element	Alongwith outer element	Alongwith outer element	
6.	Cleaner oil bath							
	i) Clean and replace oil	-	-	Daily	Weekly	Weekly	Weekly	
	Change complete filter assy	-	-	If wire mesh is damaged	If wire mesh is damaged	If wire mesh is damaged	If wire mesh is damaged	