LIEBHERR

CONSTRUCTION EQUIPMENT



944R - Diesel Engine

Sample No: LH0242790

Oil Type: DIESEL ENGINE OIL SAE 10W30

O SAM	DLF INFO	DRMATION		
Sample Number		LH0242790	 	
Sample Date		14 Aug 2023	 	
Machine Hours		0	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		SEVERE	 	
OIL (ONDITIO	ON		
Visc @ 100°C	cSt	57.3	 	
Oxidation (PA)	%	70	 	
	70	10		
4677				
CON	TAMINA	TION		
Soot %	%	6	 	
Nitration (PA)	%	113	 	
Sulfation (PA)	%	101	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	11	 	
Sodium	ppm	48	 	
Potassium	ppm	01	 	
◎ WEA	R META	16		
	IK ME I A			
Iron	ppm	36	 	
Copper	ppm	5	 	
Lead	ppm	○ <1	 	
Tin	ppm	() <1	 	
Aluminum	ppm	2	 	
Chromium	ppm	() <1	 	
Molybdenum	ppm	o 56	 	
Nickel	ppm	() <1	 	
Titanium	ppm	() <1	 	
Silver	ppm	0	 	
Manganese	ppm	() <1	 	
Vanadium	ppm	0	 	
ADD	ITIVES			
Calcium	ppm	1039	 	
Magnesium	ppm	969	 	
Zinc	ppm	1213	 	
Phosphorus	ppm	1047	 	
Barium	ppm	0 <1	 	
D.				

Gerdau - Mandak Metal Processors Ltd.,

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Diagnosis

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is an abnormal amount of solids and carbon present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Depot: MANSEL
Unique No: 5631722
Signed: Wes Davis
Report Date: 28 Aug 2023

ppm

Boron







GRAPHS

