LIEBHERR

CONSTRUCTION EQUIPMENT

[DNA] LIEBHERR R934CT-Rex (S/N 20279) - Hydraulic System

Sample No: LH0290916

Oil Type: KENDALL FOUR SEASONS AW ISO 46

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Sam	ple Info	rmation				
Sample Number		LH0290916	LH0178239	LH0214170		
Sample Date		13 May 2024	14 Nov 2023	15 Sep 2022		
Machine Hours		11000	10334	9870		
Oil Hours		5000	2000	2000		
Oil Changed		Not Changd	Not Changd	Filtered		
Sample Status		ABNORMAL	ABNORMAL	NORMAL		
Oil Condition						
Visc @ 40°C	cSt	44.1	O 41.3	○ 43.9		
- A-1						

Conto	mination				
Water	%	NEG	NEG	NEG	
Particles >4µm		43763	32539	9697	
Particles >6µm		1248	918	O 1210	
Particles >14µm		51	O 14	o 50	
ISO 4406:1999 (c)		23/17/13	22/17/11	20/17/13	
Silicon	ppm	0 <1	O <1	O <1	
Sodium	ppm	0 <1	O <1	0	
Potassium	ppm	0 <1	0	O <1	
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Wed	ar Metals	;			
Iron	ppm	11	O 14	O 7	
Copper	ppm	4	4	3	
Lead	ppm	0	O <1	O <1	
Tin	ppm	0	O 0	O 0	
Aluminum	ppm	<1	0	O 0	
Chromium	ppm	20	<u> </u>	1 3	
Molybdenum	ppm	0	O 0	O 0	
Nickel	ppm	2	O 2	O <1	
Titanium	ppm	0	0	0	
Silver	ppm	0	<1	0	
Manganese	ppm	<1	0	<1	
Vanadium	ppm	0	0	0	

Additives						
Calcium	ppm	67	6 9	○ 65		
Magnesium	ppm	0 1	O 2	O <1		
Zinc	ppm	436	O 446	453		
Phosphorus	ppm	347	○ 359	404		
Barium	ppm	0	O <1	O 0		
Boron	ppm	 <1	O <1	0		



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Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Chromium ppm levels are abnormal. Ring wear is indicated. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: DOMBUR
Unique No: 5801727
Signed: Kevin Marson
Report Date: 27 Jun 2024

LIEBHERR







Graphs

