LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH24 1251-107721 - Front Left Wheel Hub

Sample No: LH0244000

Oil Type: LIEBHERR 20W40 GEAR PLUS

OIL CONDITION	O CAM	DI E INEA				
Sample Date 19 Jul 2023 27 Apr 2023 13 Sep 2022 22 Mar 2022		PLE INFO				
Machine Hours 8881 8247 6696 5504 Dil Hours 634 826 1192 1113 Dil Changed Changed Changed Changed Changed Sample Status ATTENTION NORMAL NORMAL MARGINAL OIL CONDITION Jisc @ 40°C CSt	· · · · · · · · · · · · · · · · · · ·					
Dil Hours	•					
Changed MARGINAL						
OIL CONDITION						
OIL CONDITION Visc @ 40°C	Oil Changed					
CONTAMINATION Silicon ppm	Sample Status		ATTENTION	NORMAL	NORMAL	MARGINAL
CONTAMINATION Silicon ppm						
CONTAMINATION Silicon	OILC	ONDITIO	N			
Silicon	Visc @ 40°C	cSt	<u> </u>	O 118	O 115	O 114
Silicon	طد					
Silicon	CON	TAMINAT	ION			
Sodium ppm 3 3 3 4				0.11	0.8	0.6
WEAR METALS			_	0	-	~
WEAR METALS ron ppm 23 26 16 20 Copper ppm <1			_			_
Copper		ррш	0	0 0	0 0	0 0
Copper	()	D 4455 41	•			
Copper ppm Image: square squa	WEA	R METAL	5			
Lead	Iron	ppm	_	_	O 16	○ 20
Tin ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Copper	ppm	O <1	O 1	6	O 7
Aluminum ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Lead	ppm	0	O 0	O 0	O <1
Chromium ppm 0 <1 <1 0 Molybdenum ppm 0 0 0 <1 0 Vickel ppm 0 0 0 0 0 Gilver ppm <1 0 0 <1 Manganese ppm <1 <1 1 <1 Vanadium ppm 0 0 3411 3252 Calcium ppm 892 3660 3411 3252 Magnesium ppm 6 13 8 6	Tin	ppm	0	0	0	0
Molybdenum ppm 0 0 0 <1 Nickel ppm 0 0 0 0 0 Citanium ppm 0 <th< td=""><td>Aluminum</td><td>ppm</td><td>0</td><td>O 0</td><td>O 2</td><td>O <1</td></th<>	Aluminum	ppm	0	O 0	O 2	O <1
Nickel ppm 0 0 0 0 0 0 0 0 0	Chromium	ppm	0	O <1	O <1	0
Titanium ppm 0 0 0 0 Silver ppm <1 0 0 <1 Manganese ppm <1 <1 1 <1 Vanadium ppm 0 0 <1 0 ADDITIVES Calcium ppm 892 3660 3411 3252 Magnesium ppm 6 13 8 6	Molybdenum	ppm	-	0	0	<1
Silver ppm <1 0 0 <1	Nickel	ppm	0	O 0	O 0	0
Manganese ppm <1 <1 1 <1 0 Vanadium ppm 0 0 <1 0 ADDITIVES Calcium ppm 892 3660 3411 3252 Magnesium ppm 6 13 8 6	Titanium	ppm	0	0	0	0
ADDITIVES Calcium ppm 6 360 3411 3252 Magnesium ppm 6 13 8 6	Silver	ppm	<1	0	0	<1
ADDITIVES Calcium ppm 892 3660 3411 3252 Magnesium ppm 6 13 8 6	Manganese	ppm	<1	<1	1	<1
Calcium ppm 892 3660 3411 3252 Magnesium ppm 6 13 8 6	Vanadium	ppm	0	0	<1	0
Calcium ppm 892 3660 3411 3252 Magnesium ppm 6 13 8 6						
Magnesium ppm 6 13 8	ADD	ITIVES				
Magnesium ppm 6 13 8	Calcium	mag	892	3660	3411	3252
	Magnesium					
	Zinc					



POTOMAC METALS INC 410 16TH AVENUE RANSON, WV US 25438

Contact: Service Manager

T: F:

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Confirm oil type. The condition of the oil is acceptable for the time in service.

Depot:POTRANUnique No:10608975Signed:Sean FeltonReport Date:21 Aug 2023

1998

2

Phosphorus

Barium

Boron

ppm

ppm

ppm

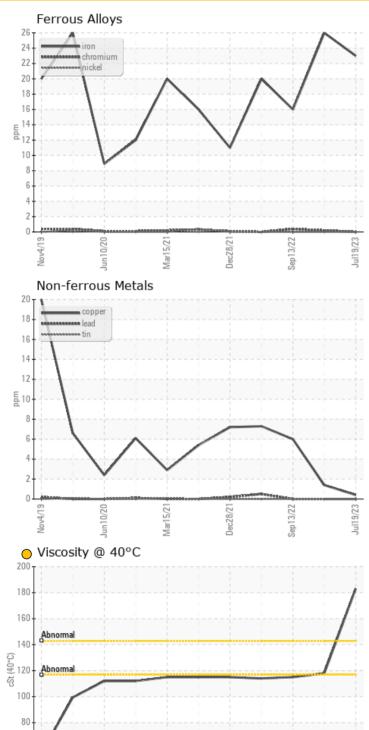
LIEBHERR







GRAPHS



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Jun 10/20

Mar15/21

Sep13/22

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