CONSTRUCTION EQUIPMENT

[[CURTIS EXCAVATING]] LIEBHERR R922 003029-480 - Diese

Sample No: LH0268160

Oil Type: NAPA Motor Oil 15W40

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Fuel

Silicon

Sodium

Potassium

%

ppm

ppm

ppm

<1.0

06

04

04

U Samp	le Inform	ation			
Sample Number		LH0268160	LH0244239	LH0207660	LH0217652
Sample Date		13 Jun 2024	08 Jul 2023	22 May 2023	12 Jan 2023
Machine Hours		1269	740	7652	7407
Oil Hours		285	228	232	260
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ATTENTION	NORMAL	NORMAL	ATTENTION
Oil Co	ndition				
Visc @ 100°C	cSt	0 15.4	0 14.6	0 14.5	0 11.2
Base Number (BN)	mg KOH/g	0 5.9	6.2	0 8.9	7.5
Oxidation (PA)	%	122	69	80	71
Conta	mination	•			
Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	113	82	84	94
Sulfation (PA)	%	78	60	59	56
Glycol	%	NEG	NEG	NEG	NEG



CURTIS EXCAVATING

N8701 HWY EE PORTAGE, WI US 53901 Contact: RUSTY rusty.curtis1@gmail.com T: (608)697-3494 F:

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.An increase in the lead level is noted. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Ä		<u> </u>	0	0			
Wear Metals							
Iron	ppm	22	20	09	21		
Copper	ppm	0 2	0 2	0 2	0 4		
Lead	ppm	0 29	3	◯ <1	2		
Tin	ppm	○ <1	○ <1	○ <1	◯ <1		
Aluminum	ppm	0 2	3	◯ <1	2		
Chromium	ppm	0 (○ <1	◯ <1	◯ <1		
Molybdenum	ppm	0 13	8 🔘	0 48	0 12		
Nickel	ppm	○ <1	○ <1	0	0		
Titanium	ppm	0	0	◯ <1	2		
Silver	ppm	0 (0	0	0		
Manganese	ppm	○ <1	1	◯ <1	◯ <1		
Vanadium	ppm	0	0	0	0		

<1.0

08

 $\bigcirc 2$

<1.0

 $\bigcirc 4$

 $\bigcirc 4$

0

01.4

 \bigcirc 10

Add Add	litives				
Calcium	ppm	0 3028	2648	0 1844	0 1949
Magnesium	ppm	O 113	○ 70	586	665
Zinc	ppm	0 1414	0 1209	0 1316	889
Phosphorus	ppm	0 1123	0 1005	0 1041	768
Barium	ppm	0	6	0	0 10
Boron	ppm	0 13	3	30	0 103

 Depot:
 CURPORLH

 Unique No:
 11090364

 Signed:
 Sean Felton

 Report Date:
 25 Jun 2024

Report Id: CURPORLH [WUSCAR] 06217500 (Generated: 06/27/2024 11:05:28) Rev: 1

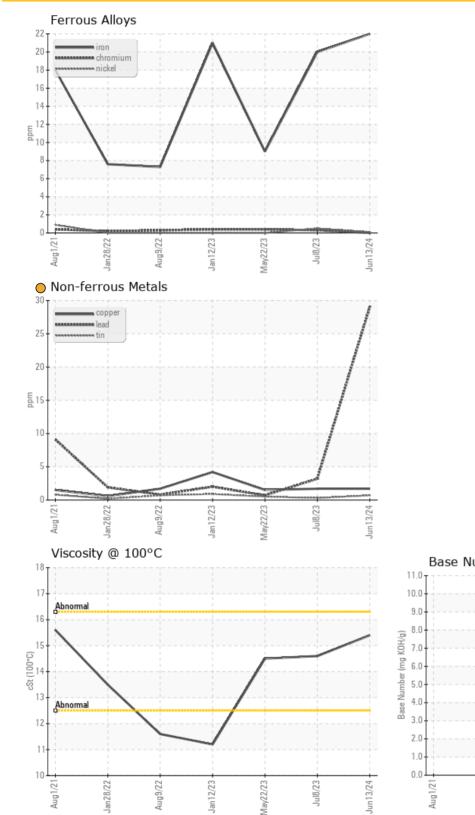
Contact/Location: RUSTY ? - CURPORLH







Graphs



Base Number 11.0 10.0

Report Id: CURPORLH [WUSCAR] 06217500 (Generated: 06/27/2024 11:05:30) Rev: 1

Contact/Location: RUSTY ? - CURPORLH