

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 1253-123497 - Diesel Engine

Sample No: LH0285589

Oil Type: PETRO CANADA DURON UHP 5W30



SPARTAN RECYCLING
3071 HOWARD ST
SPARTANBURG, SC
US 29303
Contact: SERVICE MANAGER

T:
F:



Sample Information

Sample Number	LH0285589	LH0272811	LH0272906	LH0258294
Sample Date	23 Apr 2024	08 Mar 2024	11 Jan 2024	16 Aug 2023
Machine Hours	5225	4915	4554	3960
Oil Hours	250	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 100°C	cSt	11.4	11.6	11.2	11.1
Base Number (BN)	mg KOH/g	15.6	15.5	7.2	9.9
Oxidation (PA)	%	41	46	81	69



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	91	97	76	58
Sulfation (PA)	%	40	42	52	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	7	5	7
Sodium	ppm	3	3	0	<1
Potassium	ppm	2	0	0	<1



Wear Metals

Iron	ppm	6	6	3	2
Copper	ppm	1	<1	2	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	3	2	1	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	2	3	41	45
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	<1	0	<1	<1



Additives

Calcium	ppm	4048	4132	1324	1348
Magnesium	ppm	50	80	841	898
Zinc	ppm	1076	1098	863	861
Phosphorus	ppm	939	1024	695	715
Barium	ppm	1	0	0	0
Boron	ppm	269	230	98	137

Diagnosis

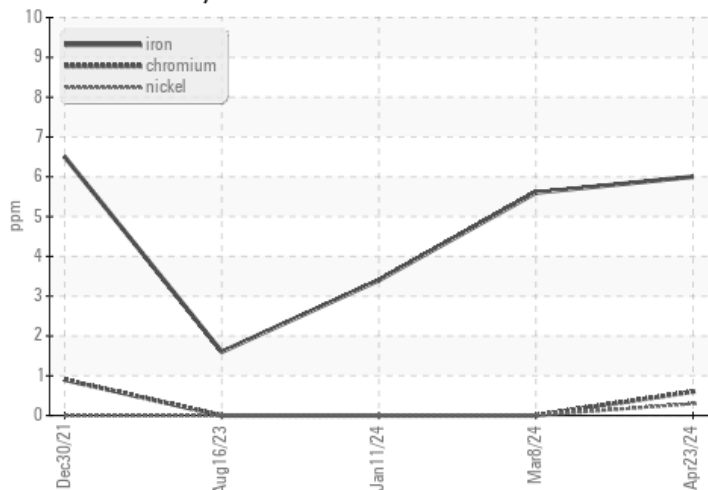
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: SPASPALH
Unique No: 11004554
Signed: Don Baldrige
Report Date: 01 May 2024

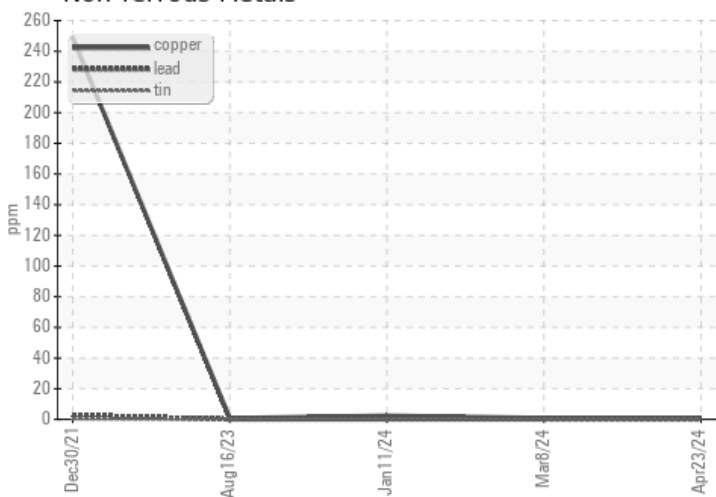


Graphs

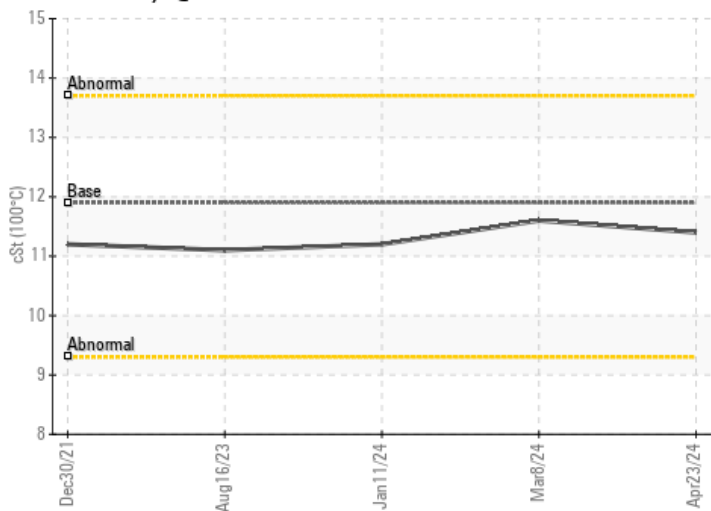
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

