

LIEBHERR

CONSTRUCTION EQUIPMENT



113718-1216 - Diesel Engine

Sample No: LH0279271

Oil Type: PETRO CANADA DURON UHP 5W30



SAMPLE INFORMATION

Sample Number	LH0279271	LH	LH0155065	LH0234888
Sample Date	16 Jan 2024	30 Oct 2023	23 Feb 2023	22 Jul 2022
Machine Hours	5998	5676	4729	4000
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

American Iron and Metal

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OIL CONDITION

Visc @ 100°C	cSt	11.4	12.9	12.3	11.6
Oxidation (PA)	%	70	66	69	79



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	73	75	77	83
Sulfation (PA)	%	54	53	59	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.2
Silicon	ppm	6	6	7	7
Sodium	ppm	3	2	2	4
Potassium	ppm	2	0	<1	3

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	3	3	4	4
Copper	ppm	<1	2	2	2
Lead	ppm	<1	1	1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	1	1	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	54	57	59	58
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	806	998	1128	872
Magnesium	ppm	1034	952	997	1117
Zinc	ppm	1126	1196	1204	1252
Phosphorus	ppm	1003	996	1104	1019
Barium	ppm	0	<1	0	0
Boron	ppm	37	2	2	26

Depot: BAKOTT
Unique No: 5710704
Signed: Wes Davis
Report Date: 18 Jan 2024



GRAPHS

