

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 029946 - Diesel Engine

Sample No: LH

Oil Type: PETRO CANADA DURON UHP 5W30



SAMPLE INFORMATION

Sample Number	LH	LH0127780	LH0130597	LH0127779
Sample Date	06 Nov 2023	19 Feb 2019	05 Dec 2018	19 Sep 2018
Machine Hours	13000	10073	9975	9279
Oil Hours	0	0	356	0
Oil Changed	Changed	N/A	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Summit Aggregates
 2686 Greenfield Blvd.
 Ayr, ON
 CA N0B 1E0
 Contact: Greg .
 greg@summitagg.com
 T: (226)791-0161
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.6	14.1	13.4	12.7
Oxidation (PA)	%	73	75	65	60



CONTAMINATION

Soot %	%	1.3	1.2	1.8	2.1
Nitration (PA)	%	88	76	78	71
Sulfation (PA)	%	63	73	66	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.5
Silicon	ppm	5	8	8	6
Sodium	ppm	4	1	1	2
Potassium	ppm	<1	<1	<1	<1

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	23	13	18	30
Copper	ppm	3	3	5	6
Lead	ppm	<1	4	4	3
Tin	ppm	0	0	0	0
Aluminum	ppm	2	3	3	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	63	120	79	71
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	825	1520	1645	1150
Magnesium	ppm	1109	669	539	953
Zinc	ppm	1206	858	972	1214
Phosphorus	ppm	1002	718	837	994
Barium	ppm	<1	0	0	0
Boron	ppm	27	251	166	24

Depot: SUMAYR
 Unique No: 5672784
 Signed: Wes Davis
 Report Date: 13 Nov 2023



GRAPHS

