

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L566 038133-1168 - Diesel Engine

Sample No: LH0203218

Oil Type: PETRO CANADA DURON UHP E6 10W40



SAMPLE INFORMATION

Sample Number	LH0203218	LH0239719	LH0215730	LH0202777
Sample Date	17 Jul 2023	12 Aug 2022	16 Nov 2021	16 Aug 2021
Machine Hours	11715	11049	10207	9732
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

D & G LANDSCAPING
 1341 COKER
 GREELY, ON
 CA K4P 1A1
 Contact: Maintenance



OIL CONDITION

Visc @ 100°C	cSt	14.2	14.1	14.2	14.4
Oxidation (PA)	%	62	27	22	54

T:
F:



CONTAMINATION

Soot %	%	1	0.1	0	0.3
Nitration (PA)	%	81	38	27	57
Sulfation (PA)	%	57	39	37	52
Glycol	%	0.0	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	5	5
Sodium	ppm	33	7	3	4
Potassium	ppm	16	2	1	4

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	44	37	13	12
Copper	ppm	4	4	1	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	11	9	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	63	60	59	59
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	<1	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1055	1108	1003	1008
Magnesium	ppm	987	999	1043	1000
Zinc	ppm	1196	1257	1219	1203
Phosphorus	ppm	1060	1046	1056	1050
Barium	ppm	0	0	0	0
Boron	ppm	<1	1	6	1

Depot: DGLGRE
 Unique No: 5616156
 Signed: Wes Davis
 Report Date: 20 Jul 2023

LIEBHERR

CONSTRUCTION EQUIPMENT



GRAPHS

