

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L556 045906-1484 - Diesel Engine

Sample No: LH0250550

Oil Type: PETRO CANADA 10W40



SAMPLE INFORMATION

Sample Number	LH0250550	LH0260445	LH0238606	LH0246905
Sample Date	12 Sep 2023	23 Jun 2023	01 Mar 2023	22 Dec 2022
Machine Hours	14240	13825	13207	12792
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ECOWASTE INDUSTRIES LTD.
 15111 WILLIAMS ROAD
 RICHMOND, BC
 CA V6W 1G9
 Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	13.7	13.5	13.7	13.2
Oxidation (PA)	%	57	58	59	67

T: (604)277-1410
 F:



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	49	54	51	64
Sulfation (PA)	%	50	50	56	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	9	7
Sodium	ppm	1	1	1	1
Potassium	ppm	2	0	0	0

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	2	2	2	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	56	57	59	58
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1096	1022	1096	1133
Magnesium	ppm	947	961	964	960
Zinc	ppm	1190	1159	1149	1217
Phosphorus	ppm	1070	1053	1084	1068
Barium	ppm	0	0	0	0
Boron	ppm	2	1	2	2

Depot: ECORIC
Unique No: 5644893
Signed: Wes Davis
Report Date: 20 Sep 2023



GRAPHS

