

LIEBHERR

CONSTRUCTION EQUIPMENT



[WEST COAST METAL] LIEBHERR R924 041508 - Diesel Engine

Sample No: LH0250587

Oil Type: PETRO CANADA DURON UHP E6 10W40



SAMPLE INFORMATION

Sample Number	LH0250587	LH0260662	LH0246936	LH0222016
Sample Date	14 Sep 2023	19 Jul 2023	09 Feb 2023	09 Feb 2022
Machine Hours	13615	13316	12736	11207
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

West Coast Metal Recycling

5771 Production Way

Langley, BC

CA V3A 4N5

Contact: Terry .

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OIL CONDITION

Visc @ 100°C	cSt	14.2	14.3	13.8	13.9
Oxidation (PA)	%	63	78	72	27



CONTAMINATION

Soot %	%	0.4	0.7	0.7	0.2
Nitration (PA)	%	69	95	86	31
Sulfation (PA)	%	55	66	63	25
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	7	9	9
Sodium	ppm	2	3	3	2
Potassium	ppm	2	<1	0	<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	9	19	16	14
Copper	ppm	3	10	4	3
Lead	ppm	<1	1	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	4	5	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	60	69	61	61
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1148	1354	1129	1088
Magnesium	ppm	948	837	961	1065
Zinc	ppm	1223	1231	1212	1281
Phosphorus	ppm	1068	1022	1092	1062
Barium	ppm	0	0	0	0
Boron	ppm	2	10	2	1

Depot: WES577LAN

Unique No: 5644834

Signed: Wes Davis

Report Date: 20 Sep 2023



GRAPHS

