

LIEBHERR

CONSTRUCTION EQUIPMENT



[WEST COAST METAL] LIEBHERR R924 041508 - Diesel Engine

Sample No: LH0260662

Oil Type: PETRO CANADA DURON UHP E6 10W40



SAMPLE INFORMATION

Sample Number	LH0260662	LH0246936	LH0222016	LH0214963
Sample Date	19 Jul 2023	09 Feb 2023	09 Feb 2022	16 Nov 2021
Machine Hours	13316	12736	11207	10663
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 .
 terry@gotmetal.ca
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	14.3	13.8	13.9	13.6
Oxidation (PA)	%	78	72	27	63



CONTAMINATION

Soot %	%	0.7	0.7	0.2	0.2
Nitration (PA)	%	95	86	31	70
Sulfation (PA)	%	66	63	25	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	9	9	6
Sodium	ppm	3	3	2	2
Potassium	ppm	<1	0	<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	19	16	14	10
Copper	ppm	10	4	3	3
Lead	ppm	1	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	5	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	69	61	61	61
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1354	1129	1088	1070
Magnesium	ppm	837	961	1065	1029
Zinc	ppm	1231	1212	1281	1242
Phosphorus	ppm	1022	1092	1062	1047
Barium	ppm	0	0	0	<1
Boron	ppm	10	2	1	1

Depot: WES577LAN
Unique No: 5632326
Signed: Wes Davis
Report Date: 30 Aug 2023



GRAPHS

