

LIEBHERR

CONSTRUCTION EQUIPMENT



[WEST COAST METAL] LIEBHERR R924 041508 - Diesel Engine

Sample No: LH0281012

Oil Type: PETRO CANADA DURON UHP E6 10W40



SAMPLE INFORMATION

Sample Number	LH0281012	LH0250587	LH0260662	LH0246936
Sample Date	26 Jan 2024	14 Sep 2023	19 Jul 2023	09 Feb 2023
Machine Hours	14115	13615	13316	12736
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	13.4	14.2	14.3	13.8
Oxidation (PA)	%	65	63	78	72



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.4	0.7	0.7
Nitration (PA)	%	79	69	95	86
Sulfation (PA)	%	56	55	66	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	10	7	9
Sodium	ppm	3	2	3	3
Potassium	ppm	<1	2	<1	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	19	9	19	16
Copper	ppm	6	3	10	4
Lead	ppm	<1	<1	1	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	11	2	4	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	60	60	69	61
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1051	1148	1354	1129
Magnesium	ppm	964	948	837	961
Zinc	ppm	1175	1223	1231	1212
Phosphorus	ppm	998	1068	1022	1092
Barium	ppm	0	0	0	0
Boron	ppm	1	2	10	2

Depot: WES577LAN
 Unique No: 5721826
 Signed: Wes Davis
 Report Date: 01 Feb 2024



GRAPHS

