

LIEBHERR

CONSTRUCTION EQUIPMENT



[(355228) [50241076]] LIEBHERR LH60M 114198-1217 -Diese

Sample No: LH0290537

Oil Type: PETRO CANADA DURON UHP 10W40



Sample Information

Sample Number	LH0290537	LH0286409	LH0281015	LH0225135
Sample Date	11 Jul 2024	09 Jun 2024	08 Feb 2024	07 Dec 2023
Machine Hours	10000	9765	8700	8004
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

AltaSteel
 9401 34 St NW
 Edmonton, AB
 CA T6B 2X6
 Contact: Richard Bailey
 richard.bailey@altasteel.com
 T:
 F:



Oil Condition

Visc @ 100°C	cSt	13.5	11.2	12.3	11.7
Oxidation (PA)	%	69	91	110	92



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	73	87	108	90
Sulfation (PA)	%	53	62	68	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.3	2	1.9
Silicon	ppm	5	5	6	6
Sodium	ppm	1	4	5	4
Potassium	ppm	<1	<1	<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	3	6	8	4
Copper	ppm	<1	<1	2	<1
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	1	<1	<1	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	56	54	64	61
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	977	783	877	845
Magnesium	ppm	937	1081	1185	1094
Zinc	ppm	1172	1151	1278	1200
Phosphorus	ppm	1013	959	1033	989
Barium	ppm	0	0	0	0
Boron	ppm	2	16	21	19

Depot: ALT940EDM
Unique No: 5814166
Signed: Wes Davis
Report Date: 18 Jul 2024



Graphs

