

LIEBHERR

CONSTRUCTION EQUIPMENT



[MONTONI] LIEBHERR L538 014567-432 - Diesel Engine

Sample No: LH0279431

Oil Type: PETRO CANADA 10W40



SAMPLE INFORMATION

Sample Number	LH0279431	LH	LH0251283	LH0239065
Sample Date	11 Dec 2023	22 Jun 2023	01 Mar 2023	15 Aug 2022
Machine Hours	0	0	5829	5113
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

MONTONI

4115 AUTOROUTE DES LAURENTIDES
LAVAL, QC
CA H7L 5W5
Contact: SERVICE



OIL CONDITION

Visc @ 100°C	cSt	13.8	13.6	14.1	12.0
Oxidation (PA)	%	62	61	68	80

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0	0	0
Nitration (PA)	%	63	63	74	86
Sulfation (PA)	%	52	52	58	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.1
Silicon	ppm	6	5	5	6
Sodium	ppm	1	1	1	9
Potassium	ppm	0	<1	<1	<1

Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.



WEAR METALS

Iron	ppm	9	6	5	8
Copper	ppm	<1	<1	<1	<1
Lead	ppm	2	1	1	1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	1	1	2	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	62	59	58	60
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1099	1084	1115	931
Magnesium	ppm	1010	996	975	1152
Zinc	ppm	1251	1177	1200	1305
Phosphorus	ppm	1048	1057	1079	1100
Barium	ppm	<1	0	0	0
Boron	ppm	1	1	<1	37

Depot: MON411LAV
Unique No: 5696822
Signed: Kevin Marson
Report Date: 18 Dec 2023



GRAPHS

