

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A924C045592 - Diesel Engine

Sample No: LH

Oil Type: PETRO CANADA 10W30



**AJAX AUTO WRECKERS (2003) INC.**  
 140 DOWTY RD  
 AJAX, ON  
 CA L1S 2G4  
 Contact: Steve

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 F:

#### 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.



#### SAMPLE INFORMATION

Sample Number	LH	LH0109687	LH0097799	LH0092618
Sample Date	24 Nov 2023	17 Jan 2017	28 Sep 2015	19 May 2015
Machine Hours	21992	13442	11091	10703
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	---	---	---	102
Visc @ 100°C	cSt	13.2	13.3	11.9	14.5
Viscosity Index (VI)	Scale	---	---	---	146
Oxidation (PA)	%	65	85	55	78



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1	2.6	1.1	2.6
Nitration (PA)	%	81	96	54	86
Sulfation (PA)	%	61	83	57	75
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	8	9	8
Sodium	ppm	2	4	2	3
Potassium	ppm	<1	2	<1	2



#### WEAR METALS

Iron	ppm	41	38	14	68
Copper	ppm	5	30	11	35
Lead	ppm	2	9	4	18
Tin	ppm	<1	<1	<1	3
Aluminum	ppm	2	2	2	4
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	59	<1	<1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1124	2565	2467	2490
Magnesium	ppm	949	9	9	9
Zinc	ppm	1241	1257	1209	1196
Phosphorus	ppm	1004	973	1048	975
Barium	ppm	<1	<1	<1	<1
Boron	ppm	3	6	4	11

Depot: AJA140AJA  
 Unique No: 5684350  
 Signed: Wes Davis  
 Report Date: 28 Nov 2023



### GRAPHS

