

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 71616 - Diesel Engine

Sample No: LH0274521

Oil Type: PETRO CANADA DURON SHP 10W30



SAMPLE INFORMATION

Sample Number	LH0274521	LH0256531	LH0256619	LH0251559
Sample Date	20 Aug 2023	19 Jun 2023	17 Apr 2023	09 Mar 2023
Machine Hours	2389	1650	1042	531
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DOFASCO INC.

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.4	13.3	11.9
Oxidation (PA)	%	66	64	78	192



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	61	55	56	88
Sulfation (PA)	%	57	53	59	112
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.9
Silicon	ppm	5	5	6	10
Sodium	ppm	1	<1	2	2
Potassium	ppm	2	1	3	4

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	5	4	5	8
Copper	ppm	11	5	15	63
Lead	ppm	2	<1	1	4
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	1	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	59	56	55	47
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1071	1028	1149	1402
Magnesium	ppm	982	968	952	958
Zinc	ppm	1191	1142	1151	899
Phosphorus	ppm	1078	1066	1024	834
Barium	ppm	<1	<1	2	13
Boron	ppm	2	4	15	107

Depot: DOFHAM
 Unique No: 5630179
 Signed: Wes Davis
 Report Date: 21 Aug 2023



GRAPHS

