

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 71616 - Diesel Engine

Sample No: LH0291276

Oil Type: PETRO CANADA DURON SHP 10W30



#### Sample Information

Sample Number	LH0291276	LH0274521	LH0256531	LH0256619
Sample Date	10 Jun 2024	20 Aug 2023	19 Jun 2023	17 Apr 2023
Machine Hours	6650	2389	1650	1042
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

#### DOFASCO INC.

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#### Oil Condition

Visc @ 100°C	cSt	14.0	13.3	13.4	13.3
Oxidation (PA)	%	75	66	64	78



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	73	61	55	56
Sulfation (PA)	%	58	57	53	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	5	6
Sodium	ppm	2	1	<1	2
Potassium	ppm	2	2	1	3

#### 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. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.



#### Wear Metals

Iron	ppm	4	5	4	5
Copper	ppm	1	11	5	15
Lead	ppm	<1	2	<1	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	1	1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	53	59	56	55
Nickel	ppm	0	0	<1	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	1230	1071	1028	1149
Magnesium	ppm	888	982	968	952
Zinc	ppm	1237	1191	1142	1151
Phosphorus	ppm	1007	1078	1066	1024
Barium	ppm	0	<1	<1	2
Boron	ppm	19	2	4	15

Depot: DOFHAM  
 Unique No: 5798530  
 Signed: Kevin Marson  
 Report Date: 11 Jun 2024



### Graphs

