

LIEBHERR

CONSTRUCTION EQUIPMENT



[(360377)] LIEBHERR L580 059426-1464 - Front Differential

Sample No: LH0237647

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0237647	LH0242480	LH0239711	LH0230688
Sample Date	08 Sep 2023	17 Nov 2022	18 Aug 2022	31 May 2022
Machine Hours	5106	3593	2987	2443
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

CLOUTHIER VENTURES LTD.
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 CA K8A 0A6
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OIL CONDITION

Visc @ 40°C	cSt	159	149	173	115
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CONTAMINATION

Silicon	ppm	3	2	2	11
Sodium	ppm	2	2	1	4
Potassium	ppm	<1	<1	<1	1



WEAR METALS

Iron	ppm	42	33	29	213
Copper	ppm	26	12	16	117
Lead	ppm	<1	<1	<1	4
Tin	ppm	2	<1	<1	7
Aluminum	ppm	<1	<1	0	1
Chromium	ppm	<1	0	0	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	4	4	4	32
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	11	51	7	11
Magnesium	ppm	1	<1	<1	2
Zinc	ppm	15	24	11	31
Phosphorus	ppm	2090	2252	2231	2517
Barium	ppm	<1	0	0	0
Boron	ppm	62	45	25	171

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: CLOPEM
 Unique No: 5646711
 Signed: Wes Davis
 Report Date: 28 Sep 2023



GRAPHS

