

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 053548-1006 - Rear Differential

Sample No: LH0277057

Oil Type: PETRO CANADA TRAXON SYNTHETIC 75W90



#### SAMPLE INFORMATION

Sample Number	LH0277057	LH0180112	LH0145392	LH0073099
Sample Date	04 Oct 2023	05 Jan 2022	23 Aug 2019	22 Oct 2013
Machine Hours	10216	8682	0	2995
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

**American Iron and Metal**  
 PIER 10, 1 PROTECTION ST  
 SAINT JOHN, NB  
 CA E2M 5S8  
 Contact: Nathan Kavanaugh  
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#### OIL CONDITION

Visc @ 40°C	cSt	102	131	139	137
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#### CONTAMINATION

Silicon	ppm	3	6	11	6
Sodium	ppm	<1	3	3	2
Potassium	ppm	0	1	1	1



#### WEAR METALS

Iron	ppm	6	96	122	86
Copper	ppm	4	37	43	28
Lead	ppm	0	1	2	1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	1	3	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	<1	<1	0
Manganese	ppm	0	2	3	2
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	15	21	24	26
Magnesium	ppm	2	2	3	3
Zinc	ppm	12	40	44	42
Phosphorus	ppm	1313	1148	1115	1149
Barium	ppm	<1	<1	1	<1
Boron	ppm	327	155	138	151

#### 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.

Depot: AME10STJ  
 Unique No: 5670796  
 Signed: Wes Davis  
 Report Date: 02 Nov 2023



### GRAPHS

