

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R936 040309-1148 - Right Final Drive

Sample No: LH0192089

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



#### SAMPLE INFORMATION

Sample Number	LH0192089	LH0119401	LH0110771	LH0092962
Sample Date	17 Nov 2021	07 May 2018	22 Aug 2017	25 Feb 2016
Machine Hours	8375	4983	3907	1139
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**RICHMOND STEEL RECYCLING**  
 11760 MITCHELL ROAD  
 RICHMOND, BC  
 CA V6V 1V8  
 Contact: Aaron Kaetler  
 AKAetler@richmondsteel.ca  
 T:  
 F: (604)324-8617



#### OIL CONDITION

Visc @ 40°C	cSt	128	113	133	142
Acid Number (AN)	mg KOH/g	---	---	---	1.11



#### CONTAMINATION

Silicon	ppm	44	43	23	7
Sodium	ppm	12	12	14	11
Potassium	ppm	1636	1317	1630	804



#### WEAR METALS

PQ		---	---	---	96
Iron	ppm	200	136	114	121
Copper	ppm	<1	2	<1	<1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	13	12	7	3
Chromium	ppm	2	2	1	2
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	2	2	1	<1
Titanium	ppm	<1	1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	1	<1	<1
Vanadium	ppm	<1	<1	0	0



#### ADDITIVES

Calcium	ppm	77	122	94	66
Magnesium	ppm	5	4	4	21
Zinc	ppm	25	104	20	27
Phosphorus	ppm	454	460	518	885
Barium	ppm	<1	<1	<1	2
Boron	ppm	1421	1206	1522	705

#### 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: RIC117RIC  
 Unique No: 5317030  
 Signed: Wes Davis  
 Report Date: 19 Nov 2021



### GRAPHS

