

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R936 040309-1148 - Splitter Box

Sample No: LH0192036

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0192036	LH0214960	LH0177381	LH0119397
Sample Date	29 Nov 2021	17 Nov 2021	28 Sep 2020	07 May 2018
Machine Hours	8386	8375	7419	4983
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Changed	Not Changd
Sample Status	SEVERE	SEVERE	SEVERE	ABNORMAL

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	136	174	206	123
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CONTAMINATION

Water	%	1.881	2.452	23.51	0.475
Silicon	ppm	9	10	12	2
Sodium	ppm	4	4	8	2
Potassium	ppm	120	195	752	485



WEAR METALS

PQ		27	35	159	---
Iron	ppm	274	409	677	46
Copper	ppm	2	3	6	1
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	0	0	0
Aluminum	ppm	221	363	166	25
Chromium	ppm	4	6	9	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	0	2	0
Manganese	ppm	4	6	8	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	22	28	51	20
Magnesium	ppm	1	2	3	<1
Zinc	ppm	78	118	115	32
Phosphorus	ppm	1777	2061	654	391
Barium	ppm	0	0	1	0
Boron	ppm	174	136	572	298

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Aluminum and iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a high concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: RIC117RIC
 Unique No: 5319593
 Signed: Kevin Marson
 Report Date: 06 Dec 2021



GRAPHS

