

LIEBHERR

CONSTRUCTION EQUIPMENT



[WEST COAST METAL] LIEBHERR R924 041508 - Swing Drive

Sample No: LH0260664

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0260664	LH0238654	LH0238676	LH0122653
Sample Date	19 Jul 2023	17 Nov 2022	18 Oct 2022	18 Feb 2022
Machine Hours	13316	12369	12262	11292
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	ABNORMAL	ABNORMAL	NORMAL

West Coast Metal Recycling

5771 Production Way
Langley, BC
CA V3A 4N5
Contact: Terry .
terry@gotmetal.ca

T:
F:



OIL CONDITION

Visc @ 40°C	cSt	199	94.4	45.2	88.1



CONTAMINATION

Water	%	---	---	0.407	---
Silicon	ppm	35	1	2	9
Sodium	ppm	2	<1	2	2
Potassium	ppm	1	<1	<1	4



WEAR METALS

PQ		0	---	---	---
Iron	ppm	982	174	78	286
Copper	ppm	139	17	137	37
Lead	ppm	4	2	5	4
Tin	ppm	15	<1	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	10	1	2	4
Molybdenum	ppm	1	<1	<1	<1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	8	1	<1	2
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	16	31	57	29
Magnesium	ppm	1	1	2	<1
Zinc	ppm	86	179	395	114
Phosphorus	ppm	2110	1553	444	1343
Barium	ppm	0	0	0	0
Boron	ppm	14	10	34	211

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Iron, tin and chromium ppm levels are abnormal. Bearing and/or bushing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. High concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: WES577LAN
Unique No: 5632486
Signed: Kevin Marson
Report Date: 31 Aug 2023

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GRAPHS

