

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R934CEW 031290-027 - Splitter Box

Sample No: LH0178197

Oil Type: KENDALL NS-MP HYPOID GEAR 80W90



Sample Information

Sample Number	LH0178197	LH0261468	LH0224445	LH0195430
Sample Date	02 Apr 2024	21 Jun 2023	16 May 2022	16 Jun 2021
Machine Hours	18000	17080	16000	14940
Oil Hours	500	580	560	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ABNORMAL

DOMINION NICKEL ALLOYS LTD.

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Oil Condition

Visc @ 40°C	cSt	112	140	73.2	85.1



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	6	7	10	2
Sodium	ppm	2	1	1	<1
Potassium	ppm	1	<1	4	2



Wear Metals

PQ		136	---	73	---
Iron	ppm	348	3	222	34
Copper	ppm	1	<1	2	1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	1	0	3	<1
Chromium	ppm	5	0	8	4
Molybdenum	ppm	0	0	0	0
Nickel	ppm	3	0	1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	4	0	2	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	17	5	27	26
Magnesium	ppm	5	2	4	1
Zinc	ppm	67	3	197	122
Phosphorus	ppm	467	601	485	497
Barium	ppm	0	0	0	0
Boron	ppm	5	<1	5	5

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: DOMBUR
Unique No: 5763840
Signed: Kevin Marson
Report Date: 23 Apr 2024



Graphs

