

LIEBHERR

CONSTRUCTION EQUIPMENT



[DNA] LIEBHERR R934CT-Rex (S/N 20279) - Diesel Engine

Sample No: LH0290921
 Oil Type: KENDALL 10W30



Sample Information

Sample Number	LH0290921	LH0178225	LH0247109	LH0214169
Sample Date	13 May 2024	14 Nov 2023	19 May 2023	15 Sep 2022
Machine Hours	11000	10334	9785	9870
Oil Hours	500	500	500	9290
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DOMINION NICKEL ALLOYS LTD.
 834 APPLEBY LINE
 BURLINGTON, ON
 CA L7L 2Y7
 Contact: Trevor Taylor
 trevor@domnickel.com
 T: (905)639-9939
 F: (905)639-3788



Oil Condition

Visc @ 100°C	cSt	12.1	11.7	11.4	11.5
Oxidation (PA)	%	59	62	61	59



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	2.2	1.8	1.4	0.9
Nitration (PA)	%	83	71	70	58
Sulfation (PA)	%	68	63	61	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	8	6
Sodium	ppm	2	2	2	1
Potassium	ppm	2	0	0	<1

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.



Wear Metals

Iron	ppm	19	21	19	13
Copper	ppm	2	3	3	2
Lead	ppm	0	<1	2	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	<1	2	1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	36	70	74	65
Nickel	ppm	<1	0	<1	0
Titanium	ppm	4	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	1602	1790	1856	1727
Magnesium	ppm	578	451	454	449
Zinc	ppm	1213	1217	1203	1159
Phosphorus	ppm	1012	1016	1072	1063
Barium	ppm	<1	<1	0	0
Boron	ppm	59	54	63	86

Depot: DOMBUR
 Unique No: 5801652
 Signed: Wes Davis
 Report Date: 26 Jun 2024



Graphs

