

# LIEBHERR

## CONSTRUCTION EQUIPMENT



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

Sample No: LH0178225

Oil Type: KENDALL 10W30



#### SAMPLE INFORMATION

Sample Number	LH0178225	LH0247109	LH0214169	LH0224442
Sample Date	14 Nov 2023	19 May 2023	15 Sep 2022	01 Apr 2022
Machine Hours	10334	9785	9870	8580
Oil Hours	500	500	9290	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**DOMINION NICKEL ALLOYS LTD.**

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#### OIL CONDITION

Visc @ 100°C	cSt	11.7	11.4	11.5	11.7
Oxidation (PA)	%	62	61	59	65



#### CONTAMINATION

Soot %	%	1.8	1.4	0.9	1.2
Nitration (PA)	%	71	70	58	78
Sulfation (PA)	%	63	61	58	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	8	6	8
Sodium	ppm	2	2	1	1
Potassium	ppm	0	0	<1	<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	21	19	13	22
Copper	ppm	3	3	2	4
Lead	ppm	<1	2	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	<1	2	1	1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	70	74	65	61
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1790	1856	1727	1711
Magnesium	ppm	451	454	449	508
Zinc	ppm	1217	1203	1159	1184
Phosphorus	ppm	1016	1072	1063	1105
Barium	ppm	<1	0	0	0
Boron	ppm	54	63	86	75

Depot: DOMBUR  
Unique No: 5682135  
Signed: Wes Davis  
Report Date: 17 Nov 2023



### GRAPHS

