

LIEBHERR

CONSTRUCTION EQUIPMENT



[(347073)] LIEBHERR R966 048149-1535 - Swing Drive

Sample No: LH0274610

Oil Type: GEAR OIL SAE 80W90



Zancon Holdings Inc.
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King City, ON
CA L7B 1C4
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INFORMATION SUR L'ÉCHANTILLON

Numéro d'échant.	LH0274610	LH	---	---
Date d'échant.	14 Sep 2023	20 Jan 2022	---	---
Heures de la Machine	1959	637	---	---
Heures de l'huile	0	0	---	---
Huile changée	Changed	Changed	---	---
Statut de l'échant.	SEVERE	NORMAL	---	---



ÉTAT D'HUILE

Visc 40°C	cSt	1.1	192	---	---
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CONTAMINATION

Silicium	ppm	39	2	---	---
Sodium	ppm	139	4	---	---
Potassium	ppm	48	2	---	---



MÉTAUX D'USURE

Fer	ppm	463	353	---	---
Cuivre	ppm	0	49	---	---
Plomb	ppm	0	2	---	---
Étain	ppm	0	1	---	---
Aluminium	ppm	0	<1	---	---
Chrome	ppm	<1	3	---	---
Molybdène	ppm	<1	2	---	---
Nickel	ppm	22	<1	---	---
Titane	ppm	0	0	---	---
Argent	ppm	<1	<1	---	---
Manganèse	ppm	3	3	---	---
Vanadium	ppm	0	0	---	---



ADDITIFS

Calcium	ppm	53	35	---	---
Magnésium	ppm	30	<1	---	---
Zinc	ppm	153	28	---	---
Phosphore	ppm	2158	2287	---	---
Baryum	ppm	<1	0	---	---
Bore	ppm	77867	5	---	---

Diagnostic

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.
Diagnostician's Note: Suspect this sample has been contaminated with ethylene glycol (likely brakefluid). Nickel ppm levels are severe. High concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component. Boron ppm levels are abnormally high. Sulfur ppm levels are abnormally low. Visc @ 40°C is abnormally low. Viscosity of sample indicates oil is within ISO 2 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: ZANKIN
Unique No: 5644069
Signed: Bill Quesnel
Report Date: 19 Sep 2023



GRAPHS

