

LIEBHERR

CONSTRUCTION EQUIPMENT



[(355226)] LIEBHERR R938 053191-1650 - Right Final Drive

Sample No: LH0284894

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



THOMAS CAVANAGH CONSTRUCTION LTD
RR # 2, 9094 CAVANAGH ROAD
ASHTON, ON
CA K0A 1B0
Contact: Keith

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INFORMATION SUR L'ÉCHANTILLON

Número d'échant.	LH0284894	LH0195724	LH0242609	LH0239643
Date d'échant.	13 Feb 2024	26 Jul 2023	24 Nov 2022	25 Jul 2022
Heures de la Machine	3960	3133	2095	1668
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	ABNORMAL	ABNORMAL	NORMAL	SEVERE



ÉTAT D'HUILE

Visc 40°C	cSt	135	97.2	97.7	209
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CONTAMINATION

Eau	%	0.224	NEG	NEG	NEG
Silicium	ppm	1072	595	52	2037
Sodium	ppm	80	45	7	154
Potassium	ppm	109	60	7	204



MÉTAUX D'USURE

PQ		268	83	---	1173
Fer	ppm	1017	1285	83	2769
Cuivre	ppm	<1	<1	0	1
Plomb	ppm	<1	0	2	<1
Étain	ppm	0	0	0	0
Aluminium	ppm	298	178	15	580
Chrome	ppm	24	23	4	34
Molybdène	ppm	2	2	<1	1
Nickel	ppm	2	1	<1	6
Titane	ppm	19	11	1	39
Argent	ppm	0	<1	0	0
Manganèse	ppm	12	14	2	30
Vanadium	ppm	0	<1	0	1



ADDITIFS

Calcium	ppm	235	137	55	489
Magnésium	ppm	93	55	8	198
Zinc	ppm	25	28	22	26
Phosphore	ppm	1871	1448	1339	1287
Baryum	ppm	3	5	10	40
Bore	ppm	98	235	290	10

Diagnostic

We advise that you check for the source of water entry. 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. Chromium and iron ppm levels are abnormal. Aluminum ppm levels are noted. Titanium ppm levels are marginal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: CAVASH
Unique No: 5734822
Signed: Kevin Marson
Report Date: 27 Feb 2024



GRAPHS

