

LIEBHERR

CONSTRUCTION EQUIPMENT



031629-793 - Right Final Drive

Sample No: LH0289499

Oil Type: PETRO CANADA TRAXON SYNTHETIC 75W90



Information sur l'échantillon

Numéro d'échant.	LH0289499	LH0227403	LH	LH
Date d'échant.	24 May 2024	08 Apr 2022	09 Jan 2022	10 May 2021
Heures de la Machine	16113	13549	12577	12126
Heures de l'huile	0	0	0	0
Huile changée	Changed	N/A	Not Changd	Not Changd
Statut de l'échant.	SEVERE	ABNORMAL	ABNORMAL	NORMAL

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État d'huile

Visc 40°C	cSt	90.2	94.0	93.2	99.8



Contamination

Eau	%	NEG	NEG	NEG	NEG
Silicium	ppm	809	402	226	48
Sodium	ppm	49	26	17	5
Potassium	ppm	55	28	17	4



Métaux d'usure

PQ		875	363	89	---
Fer	ppm	5086	1636	1598	323
Cuivre	ppm	154	41	28	6
Plomb	ppm	9	7	5	<1
Étain	ppm	6	3	2	<1
Aluminium	ppm	179	106	62	12
Chrome	ppm	88	33	33	7
Molybdène	ppm	6	3	3	<1
Nickel	ppm	13	4	5	1
Titane	ppm	12	8	4	<1
Argent	ppm	0	0	<1	<1
Manganèse	ppm	71	31	25	6
Vanadium	ppm	<1	<1	<1	<1



Additifs

Calcium	ppm	854	714	359	92
Magnésium	ppm	102	73	40	10
Zinc	ppm	64	39	29	10
Phosphore	ppm	1201	1287	1328	1232
Baryum	ppm	4	0	0	0
Bore	ppm	355	266	220	289

Diagnostic

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 severe. PQ levels are severe. Nickel and copper and titanium ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. Bearing and/or bushing wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring. 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: LAKWHI
Unique No: 5787776
Signed: Kevin Marson
Report Date: 31 May 2024



Graphs

