

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L538 022866-433-Transmission (Auto)

Sample No: LH0249950

Oil Type: PETRO CANADA SYNTHETIC BLEND ATF



SAMPLE INFORMATION

Sample Number	LH0249950	LH0224014	LH0186057	LH0072853
Sample Date	27 Nov 2023	24 Mar 2023	09 Feb 2021	24 Feb 2017
Machine Hours	20000	19029	16017	10435
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

RMR Regie des Matierels Residuelles du LSU
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OIL CONDITION

Visc @ 40°C	cSt	26.9	21.7	26.8	22.8
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 11	● 10	● 6	● 8
Sodium	ppm	● 2	● 2	● <1	● 2
Potassium	ppm	● <1	● 3	● <1	● 0



WEAR METALS

PQ		● 4	---	---	● 25
Iron	ppm	● 257	● 143	● 141	● 273
Copper	ppm	● 43	● 82	● 104	● 174
Lead	ppm	● 1	● 3	● 3	● 6
Tin	ppm	● 2	● 6	● 6	● 12
Aluminum	ppm	● 3	● 2	● 2	● 2
Chromium	ppm	● 3	● 2	● 2	● 3
Molybdenum	ppm	● 0	● 1	● <1	● 2
Nickel	ppm	● <1	● <1	● <1	● <1
Titanium	ppm	0	2	2	0
Silver	ppm	● <1	● <1	● <1	● 0
Manganese	ppm	● 2	● 2	● 1	2
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	● 45	● 53	● 53	● 33
Magnesium	ppm	● <1	● 1	● <1	● 0
Zinc	ppm	● 24	● 42	● 20	● 41
Phosphorus	ppm	● 203	● 286	● 206	● 418
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● 98	● 116	● 116	● 119

Diagnosis

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Usure des engrenages. Le bas indice ferreux (PQ) indique que l'usure ferreuse est due à de la corrosion. Il n'y a aucun indice de contamination dans le fluide. le fluide n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Depot: RMRROB
Unique No: 5684391
Signed: Kevin Marson
Report Date: 28 Nov 2023



GRAPHS

