

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



Machine Id **LIEBHERR PR734XL DOZER 22700 (S/N 007856-725)**

Component
Diesel Engine

Fluid LIEBHERR MOTOROIL 10W-40	LOW ASH	(Q 7	ΓS)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Number	OOW	Client Info	LIIIIU/ADII	WC0924606	WC0857103	WC0786416
	Sample Date		Client Info		30 Apr 2024		29 Aug 2023
	Machine Age	hrs	Client Info		11967	11758	11565
	Oil Age	hrs	Client Info		1000	250	500
	Filter Age	hrs	Client Info		1000	250	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	8	7	17
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		3	0	2
	Tin	ppm	ASTM D5185m	>5	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>60	7	6	8
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m	>20	0	3	2
	Fuel	%	ASTM D3524	>5	1.1	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.4
	Nitration	Abs/cm		>20	8.8	7.7	5.6
	Sulfation	Abs/.1mm	*ASTM D7415		19.8	18.5	18.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	1	4
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		169	190	409
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		36	9	83
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		838	748	404
	Calcium	ppm	ASTM D5185m		1350	1234	1362
	Phosphorus	ppm	ASTM D5185m		806	874	996
	Zinc	ppm	ASTM D5185m		923	975	1208
	Sulfur	ppm	ASTM D5185m		3252	3890	3746
	Oxidation	Abs/.1mm	*ASTM D7414		18.9	17.2	12.5
	Base Number (BN)				9.7	8.7	6.7
	Visc @ 100°C	cSt	ASTM D445	13.0	12.0	13.0	12.5







Laboratory Sample No.

Lab Number : 06176758

: WC0924606 Unique Number : 11022811

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 May 2024 **Tested** : 15 May 2024

Diagnosed : 15 May 2024 - Wes Davis

2860 C SLATER RD MORRISVILLE, NC US 27560

SULLIVAN EASTERN INC-LIEBHERR

Contact: CHRIS CALTON

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (919)484-2136

Report Id: MSCDURLH [WUSCAR] 06176758 (Generated: 05/15/2024 20:17:22) Rev: 1

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