

WEAR CONTAMINATION FLUID CONDITION

NORMAL

MARGINAL

NORMAL



Machine Id CATERPILLAR END DUMP/773B ED-6

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W4	0 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number	OOW	Client Info	LIIIIU/ADII	LP0000507	WC0721157	WC0542411
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 Date		Client Info		13 Oct 2023	20 Dec 2022	19 Nov 2021
	Machine Age	hrs	Client Info		48937	41672	45909
	Oil Age	hrs	Client Info		500	500	500
	Filter Age	hrs	Client Info		500	500	500
	Oil Changed	1110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Onone into		MARGINAL	NORMAL	NORMAL
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WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	21	48	15
	Chromium	ppm	ASTM D5185m	>20	<1	1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	1	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	1	<1	<1
	Lead	ppm	ASTM D5185m	>40	0	2	<1
	Copper	ppm	ASTM D5185m	>330	2	7	2
	Tin	ppm	ASTM D5185m	>15	0	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliana		ACTM DE10E	05	0	4	
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	4	2
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m		7	1	0
	Fuel	%			▲ 4.3 NEG	<1.0	<1.0 NEG
	Water		WC Method	>0.2	NEG	NEG NEG	NEG
	Glycol Soot %	%	*ASTM D7844	. 2	0.5	0.8	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	11.6	9
	Sulfation	Abs/.1mm	*ASTM D7024		20.4	23.7	19.6
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		12	11	0
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	3	9	13
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	12	0
	Molybdenum	ppm	ASTM D5185m	100	63	56	59
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		914	777	915
	Calcium	ppm	ASTM D5185m		1079	968	1090
	Phosphorus	ppm	ASTM D5185m		1046	832	1057
	Zinc	ppm	ASTM D5185m		1261	1036	1115
	Sulfur	ppm	ASTM D5185m		3097	2628	2635
	Oxidation	Abs/.1mm	*ASTM D7414		18.0	22.9	16.6
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.39	6.95	10.1

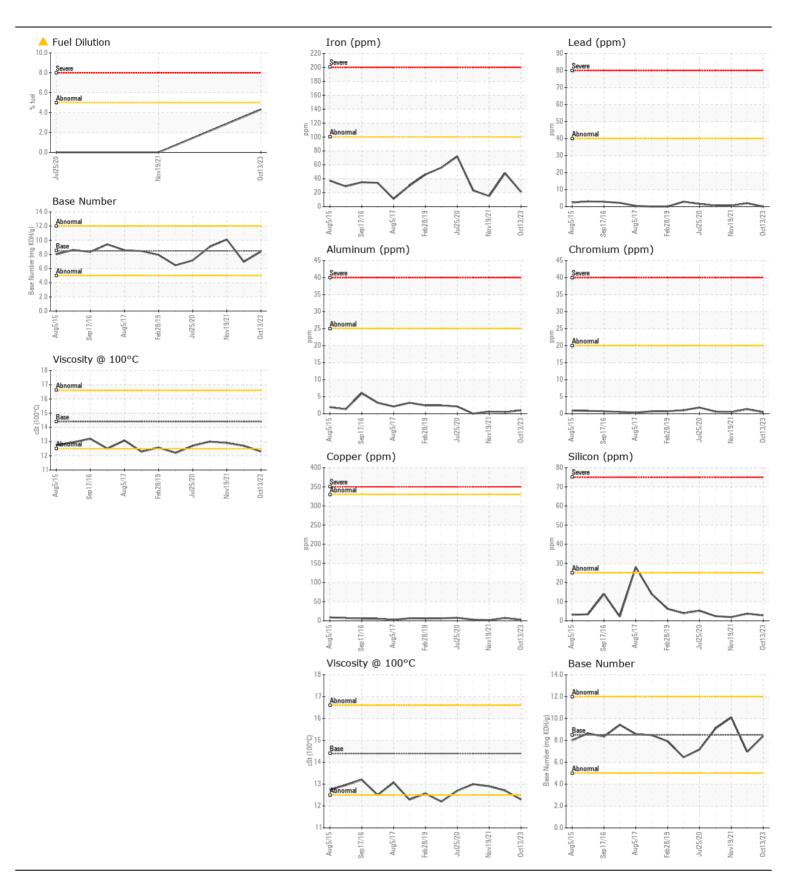
Visc @ 100°C cSt

ASTM D445 14.4

12.3

12.7

12.9





Laboratory Sample No.

Lab Number : 05988301 Unique Number : 10710963

: LP0000507

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 24 Oct 2023 : 27 Oct 2023 Diagnosed

: 27 Oct 2023 - Wes Davis

66 MAIN ST MILLIS, MA US 02054 Contact: FRAN ROSSI

TRESCA BROS SAND & GRAVEL INC

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

frossi@trescaconcrete.com T: (508)376-2957

* - 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: (508)376-4333