

## Machine Id CATERPILLAR END DUMP 773B ED3

Diesel Engine

## DIESEL ENGINE OIL SAE 15W40 (6 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LP0001452	WC0802318	WC0570056
	Sample Date		Client Info		12 Jun 2024	09 May 2023	05 Mar 2022
	Machine Age	hrs	Client Info		51229	48446	46415
	Oil Age	hrs	Client Info		500	500	500
	Filter Age	hrs	Client Info		500	500	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	5	9	26
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m		<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	0	2
	Lead	ppm	ASTM D5185m		_ <1	0	2
	Copper	ppm	ASTM D5185m		2	1	2
	Tin	ppm	ASTM D5185m		_ <1	0	<1
	Vanadium	ppm	ASTM D5185m	210	0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Scalai	visuai			NONL	NONL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	6	3
There is no indication of any contemination in the cit	Potassium	ppm	ASTM D5185m	>20	6	0	0
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	6.6	7.4	10.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.2	17.6	21.0
	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	>158	4	2	2
	Boron	ppm	ASTM D5185m	250	12	31	12
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	23	69	63
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	450	284	609	1014
	Calcium	ppm	ASTM D5185m		1850	1442	1205
	Phosphorus	ppm	ASTM D5185m		955	1029	1106
	Zinc	ppm	ASTM D5185m	1350	1079	1215	1274
	Sulfur	ppm	ASTM D5185m		4042	3463	2934
	Oxidation	Abs/.1mm	*ASTM D310311		10.9	13.5	18.7
	Base Number (BN)				9.32	9.97	10.5
				0.0	5.52	3.37	10.0

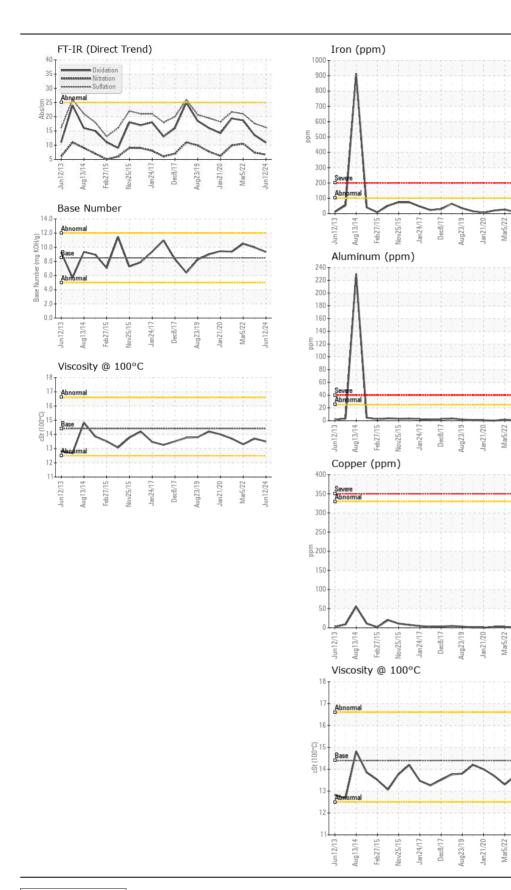
Visc @ 100°C cSt

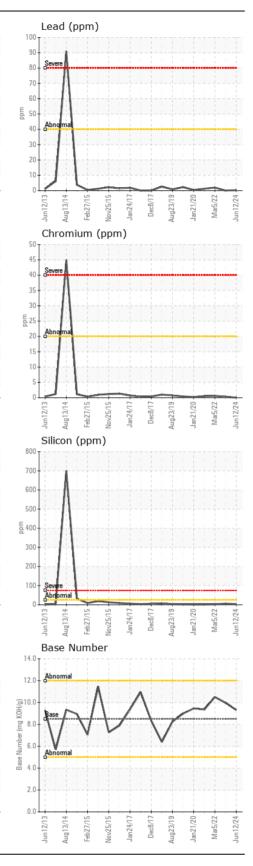
ASTM D445 14.4

13.7

13.3

13.5





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Jun12/24 -

: 17 Jun 2024

: 19 Jun 2024





Test Package : MOB 2 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)

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

Received

Diagnosed

Tested

Laboratory

Sample No.

Lab Number : 06212564

Unique Number : 11085428

: LP0001452