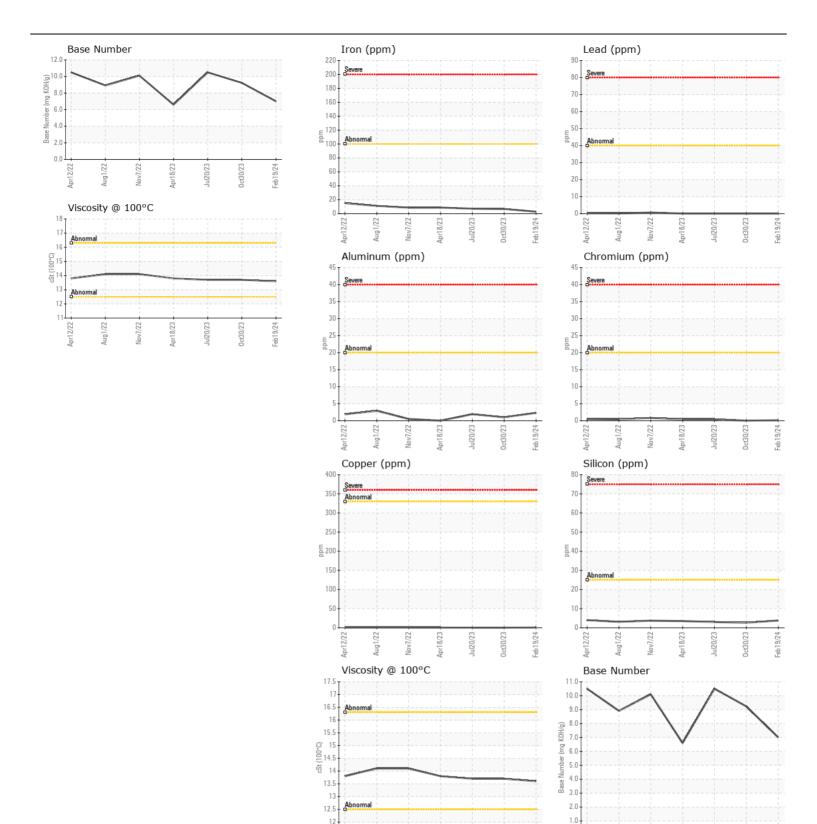
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

MIXERS
Machine Id
[MIXERS] M220

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PCA0109790	LP0000668	LP000019
Resample at the next service interval to monitor.	Sample Date		Client Info		19 Feb 2024	30 Oct 2023	20 Jul 202
	Machine Age	hrs	Client Info		5385	4737	3126
	Oil Age	hrs	Client Info		600	600	600
	Filter Age	hrs	Client Info		600	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	3	7	7
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	<1
	Titanium	ppm	ASTM D5185m		<1	1	1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	1	2
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	0	<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	Silicon	ppm	ASTM D5185m	>25	4	3	3
ONTAMINATION	Potassium	ppm	ASTM D5185m		<1	<1	2
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 U.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.7	0.6
	Nitration	Abs/cm	*ASTM D7624		8.4	8.6	8.6
	Sulfation	Abs/.1mm	*ASTM D7415		18.5	18.8	19.2
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m		2	3	2
FLOID CONDITION	Boron	ppm	ASTM D5185m	6.2	48		40
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		0	32 0	0
	Molybdenum	ppm	ASTM D5185m		78	77	80
	Manganese	ppm	ASTM D5185m	0.4	/o <1	0	<1
	Magnesium	ppm	ASTM D5185m	277	109	199	303
	Calcium	ppm	ASTM D5185m		1994	1824	2006
	Phosphorus	ppm	ASTM D5185m		1012	971	1045
	Zinc	ppm	ASTM D5185m		1112	1175	1295
	Sulfur	ppm	ASTM D5185m		3577	3342	4392
	Oxidation	Abs/.1mm	*ASTM D3163111		13.4	14.0	14.0
	Base Number (BN)			/20	7.0	9.23	10.50
	Dasc Halling (DIV)	IIIQ I\UII/U	AO HIVI DEUJU		1.0	0.20	10.00







Certificate L2367

Laboratory Sample No.

Lab Number : 06105095 Unique Number: 10903325 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : PCA0109790 : 29 Feb 2024 **Tested** :01 Mar 2024

Apr18/23

Nov7/22

: 01 Mar 2024 - Wes Davis Diagnosed

Feb19/24 -

Aug1/22

Apr12/22

Nov7/22

CONSTRUCTION SERVICES 2420 BOSTON RD $WILBRAHAM,\,MA$

US 01095 Contact: Michael Dupuis

mdupuis@cs-ma.us T: (413)733-6331

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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* - 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) Feb19/24

F: