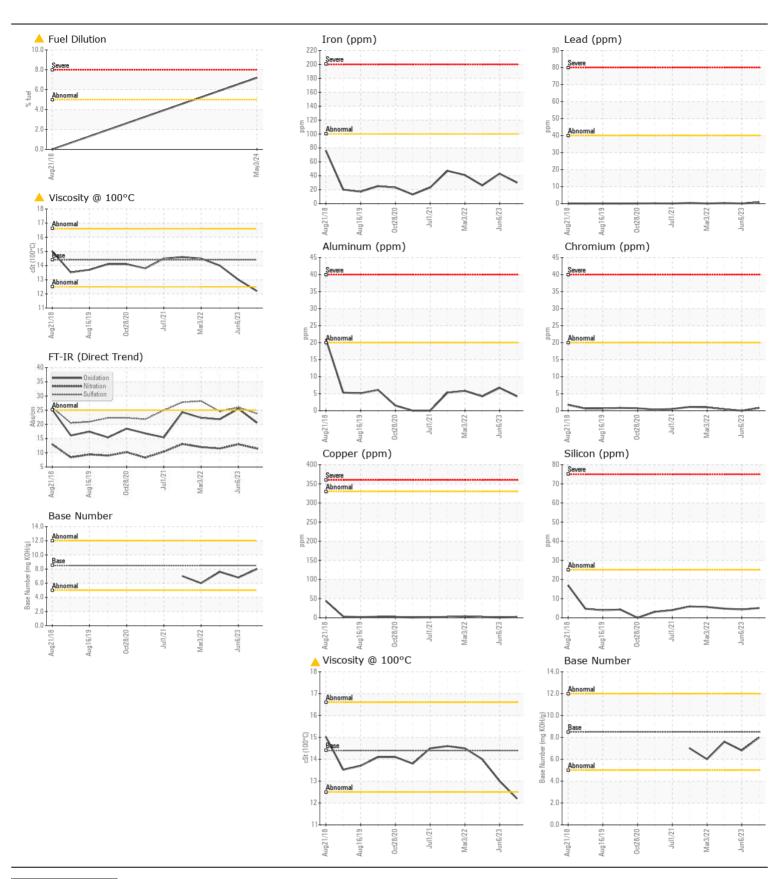
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL ABNORMAL

Machine Id

AMB M31711 Component Diesel Engine

DECOMMEND ATION	- .	11011		11 1,141	(<u> </u>	112.1	111 1
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		DC0034060	DC0026340	DC0021240
	Sample Date	mlo	Client Info		03 May 2024	06 Jun 2023	15 Jun 2022
	Machine Age	mls	Client Info		0	167538	146089
	Oil Age Filter Age	mls	Client Info		0	4352 4352	4168 4168
	_	mls	Client Info		_		
	Oil Changed Filter Changed		Client Info		Changed Changed	Changed Changed	Changed
	Sample Status		Client into		ABNORMAL	NORMAL	Changed NORMAL
<u></u>							
WEAR	Iron	ppm	ASTM D5185m	>100	30	43	26
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	7	4
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	2	1	2
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTABBINATION	0:1:		AOTM DE40E	05	_	4	
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	4	5
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		4	2	2
	Fuel Water	%	ASTM D3524 WC Method		▲ 7.2 NEG	<1.0 NEG	<1.0 NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	· 3	1.4	1.2	0.9
	Nitration	Abs/cm		>20	11.5	13.0	11.5
	Sulfation	Abs/.1mm	*ASTM D7024		23.8	26.0	24.6
	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	>158	5	3	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		0	4	5
oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	58	58	55
	Manganese	ppm	ASTM D5185m		1	0	<1
	Magnesium	ppm	ASTM D5185m		912	973	854
	Calcium	ppm	ASTM D5185m		1094	1234	1232
	Phosphorus	ppm	ASTM D5185m		1018	1053	972
	Zinc	ppm	ASTM D5185m		1196	1388	1239
	Sulfur	ppm	ASTM D5185m		3085	3568	2808
	Oxidation	Abs/.1mm	*ASTM D7414		20.6	25.5	21.8
	Base Number (BN)		ASTM D2896		8.0	6.8	7.6
	Visc @ 100°C	cSt	ASTM D445	144	12.2	13.0	14.0





Certificate L2367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0034060 Lab Number : 06194832

Received **Tested** Unique Number : 11056955

Diagnosed

: 03 Jun 2024 : 03 Jun 2024 - Wes Davis

: 29 May 2024

Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

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)

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