

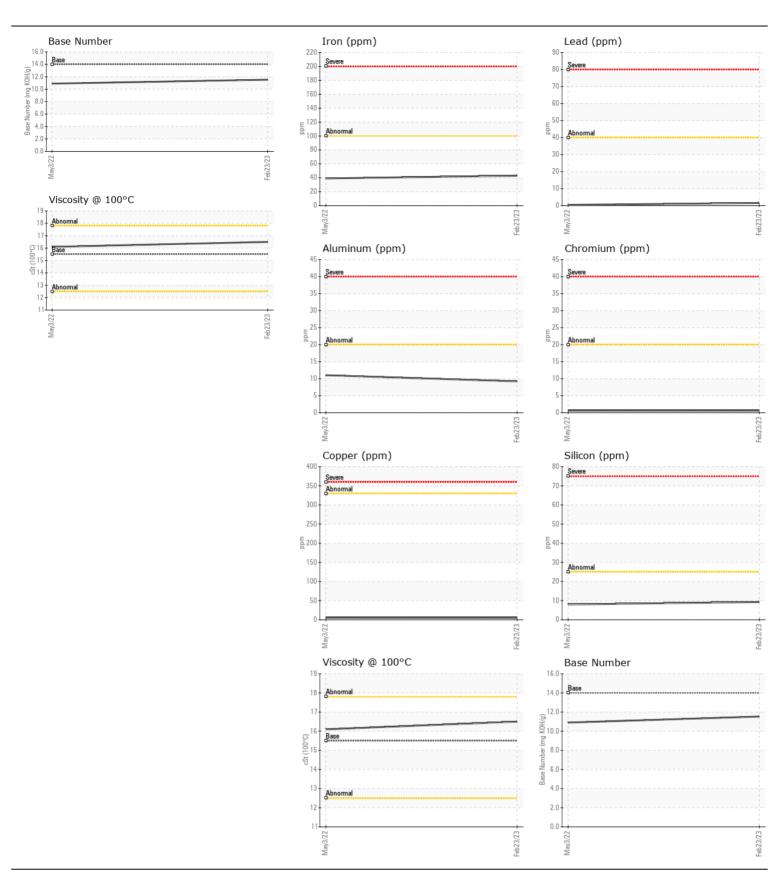
OIL ANALYSIS REPORT

WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Area DIEMAR WHITE 1

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR05782600	TR05547733	
	Sample Date		Client Info		23 Feb 2023	03 May 2022	
	Machine Age	mls	Client Info		33039	23154	
	Oil Age	mls	Client Info		21389	11504	
	Filter Age	mls	Client Info		9885	11504	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				NORMAL	NORMAL	
NEAR	lvon		ACTM DE10Em	. 100	40	20	
WEAR	Iron	ppm	ASTM D5185m		43	39	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m	>4	0	0	
	Titanium	ppm	ASTM D5185m	0	<1	<1	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m		9	11	
	Lead	ppm	ASTM D5185m		2	<1	
	Copper	ppm	ASTM D5185m		5	5	
	Tin	ppm	ASTM D5185m	>15	1	<1	
	Vanadium	ppm	ASTM D5185m	NONE	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9	8	
	Potassium	ppm	ASTM D5185m		33	36	
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.8	0.6	
	Nitration	Abs/cm	*ASTM D7624		13.5	11.8	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	26.8	24.9	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		1	4	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		104	98	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m		96	102	
	Calcium	ppm	ASTM D5185m	1300	4450	4274	
	Phosphorus	ppm	ASTM D5185m		869	934	
	Zinc	ppm	ASTM D5185m	1300	1066	1166	
	Sulfur	ppm	ASTM D5185m		4447	3191	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	15.5	
	Base Number (BN)	mg KOH/g	ASTM D2896	14	11.53	10.9	
	Visc @ 100°C	cSt	ASTM D445	15.5	16.5	16.1	







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 05782600 : 10362270 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 03 Mar 2023 : TR05782600 : 06 Mar 2023 Diagnosed

: Wes Davis Diagnostician

To discuss this sample report, contact Customer Service at 1-800-827-0711.

WEARCHECK USA 501 Madison Ave Cary, NC

US 27513 Contact: CATHERINE ANASTASIO CANASTASIO@WEARCHECKUSA.COM

* - 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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