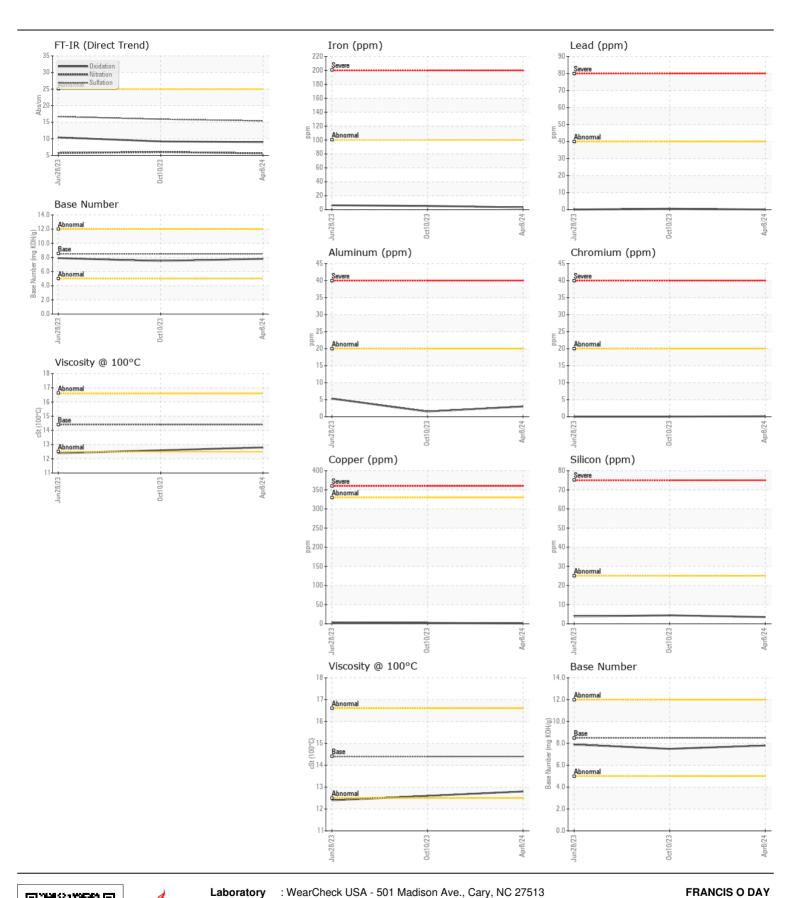
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **12433** 

Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W40 ( GAL)							
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		DC0036034	DC0031844	DC0029457
	Sample Date		Client Info		08 Apr 2024	10 Oct 2023	28 Jun 2023
	Machine Age	hrs	Client Info		2381	2200	1818
	Oil Age	hrs	Client Info		0	250	250
	Filter Age	hrs	Client Info		0	0	250
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	3	5	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	0	0
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m	>20	3	2	5
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	1	2	2
	Tin	ppm	ASTM D5185m	>15	0	0	0
	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	4	4
The section of the line of the section is the section in	Potassium	ppm	ASTM D5185m	>20	1	3	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	0.4
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.6	6.0	5.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	15.4	15.9	16.7
	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	0	0	0
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	4	13	60
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	4	0
	Molybdenum	ppm	ASTM D5185m	100	3	6	14
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		53	57	96
	Calcium	ppm	ASTM D5185m		2374	2309	2253
	Phosphorus	ppm	ASTM D5185m		907	955	936
	Zinc	ppm	ASTM D5185m		1086	1064	1072
	Sulfur	ppm	ASTM D5185m		4285	4091	4241
	Oxidation	Abs/.1mm	*ASTM D7414		9.0	9.2	10.4
	Base Number (BN)				7.8	7.5	7.9
	Visc @ 100°C	cSt	ASTM D445	14.4	12.8	12.6	12.4





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06158321

: DC0036034 Unique Number : 10993744

Received **Tested** Diagnosed

Test Package : MOB 1 ( Additional Tests: TBN )

14900 SOUTHLAWN LN : 23 Apr 2024 ROCKVILLE, MD : 24 Apr 2024 : 24 Apr 2024 - Wes Davis

Contact: JAMIE FORESTER

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)

US 20850

T: F: