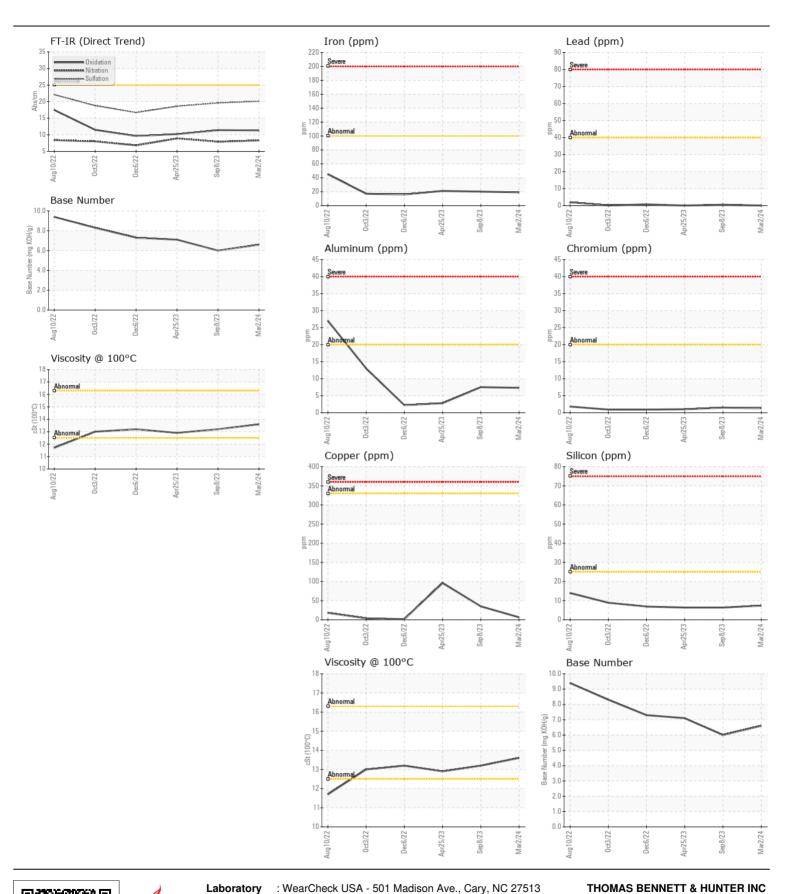
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id A-424

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		DC0035300	DC0029740	DC002046
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		02 Mar 2024	08 Sep 2023	25 Apr 202
	Machine Age	hrs	Client Info		3818	2802	1894
	Oil Age	hrs	Client Info		1016	992	689
	Filter Age	hrs	Client Info		1016	992	689
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMA
VEAR	Iron	ppm	ASTM D5185m	>100	19	20	21
	Chromium	ppm	ASTM D5185m		1	2	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		7	8	3
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m	>330	6	35	96
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONI
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	6	6
OONTAMINATION	Potassium	ppm	ASTM D5185m		23	25	12
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 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.8	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.9	8.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	19.6	18.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONI
	Debris	scalar	*Visual	NONE	NONE	NONE	NONI
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	2
	Boron	ppm	ASTM D5185m		3	<1	<1
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	12	0
	Molybdenum	ppm	ASTM D5185m		4	4	4
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		62	56	52
	Calcium	ppm	ASTM D5185m		2691	2231	2350
	Phosphorus	ppm	ASTM D5185m		1043	842	910
	Zinc	ppm	ASTM D5185m		1300	1074	1099
	Sulfur	ppm	ASTM D5185m		4400	3267	4286
	Oxidation	Abs/.1mm	*ASTM D7414	>25	11.3	11.4	10.2
	Base Number (BN)	mg KOH/g	ASTM D2896		6.6	6.0	7.1
	Visc @ 100°C	cSt	ASTM D445		13.6	13.2	12.9







Certificate L2367

Laboratory Sample No.

Lab Number : 06221047

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0035300

Received Unique Number : 11099244

Tested Diagnosed Test Package : MOB 1 (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 27 Jun 2024

: 26 Jun 2024

: 27 Jun 2024 - Wes Davis

70 JOHN ST WESTMINSTER, MD US 21157

Contact: JOE STEPHAN jstephan@tbhconcrete.com T: (410)848-9030

* - 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)

F: (410)848-9032