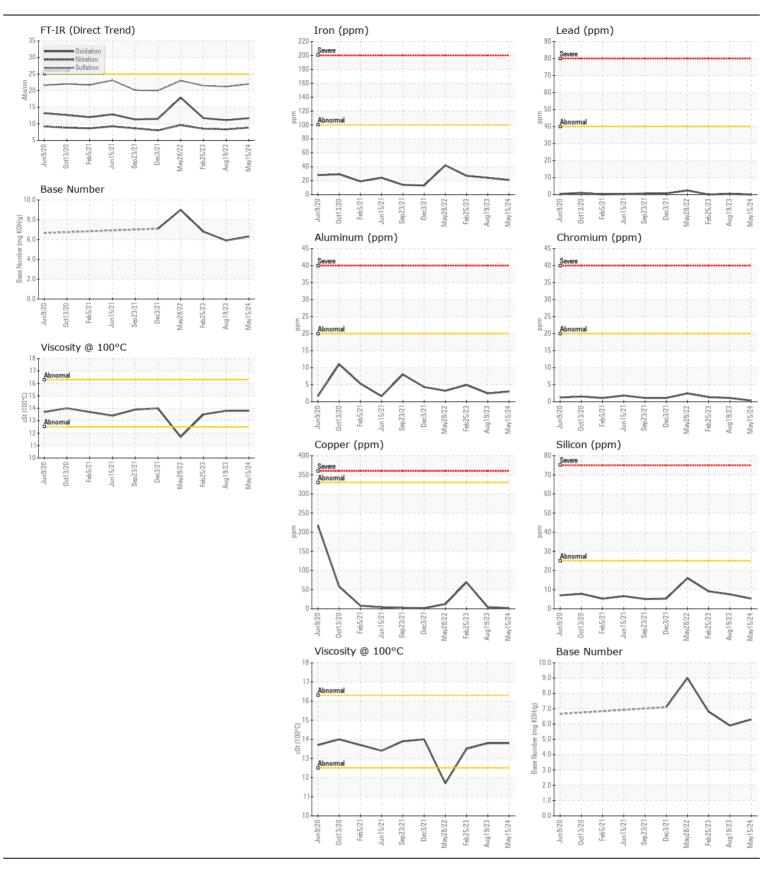
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id A-402

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		DC0035295	DC0029731	DC0020501
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		15 May 2024	19 Aug 2023	25 Feb 2023
	Machine Age	hrs	Client Info		10050	8251	7036
	Oil Age	hrs	Client Info		894	929	1156
	Filter Age	hrs	Client Info		894	929	1156
	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	21	24	27
	Chromium	ppm	ASTM D5185m	>20	<1	1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	2	5
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	2	4	69
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	8	9
SONTAMINATION	Potassium	ppm	ASTM D5185m		11	8	16
There is no indication of any contamination in the oil.	Fuel	ррпп	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	1.2	1	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.3	8.5
	Sulfation	Abs/.1mm	*ASTM D7415		22.0	21.2	21.5
	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	ppm	ASTM D5185m		2	3	3
LOID CONDITION	Boron	ppm	ASTM D5185m		6	<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	11	0
	Molybdenum	ppm	ASTM D5185m		5	3	5
	Manganese	ppm	ASTM D5185m		0	<1	1
	Magnesium	ppm	ASTM D5185m		74	55	59
	Calcium	ppm	ASTM D5185m		2350	2280	2464
	Phosphorus	ppm	ASTM D5185m		835	900	909
	Zinc	ppm	ASTM D5185m		1156	1106	1133
	Sulfur	ppm	ASTM D5185m		3566	3662	4308
	Oxidation	Abs/.1mm	*ASTM D7414	>25	11.7	11.1	11.7
	Base Number (BN)				6.3	5.9	6.8
		9					







Certificate L2367

Laboratory Sample No.

: DC0035295 Lab Number : 06221036

Unique Number: 11099233 Test Package : MOB 1 (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Jun 2024 **Tested**

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Diagnosed

: 27 Jun 2024 : 27 Jun 2024 - Wes Davis

THOMAS BENNETT & HUNTER INC 70 JOHN ST WESTMINSTER, MD

US 21157 Contact: JOE STEPHAN jstephan@tbhconcrete.com

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.

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