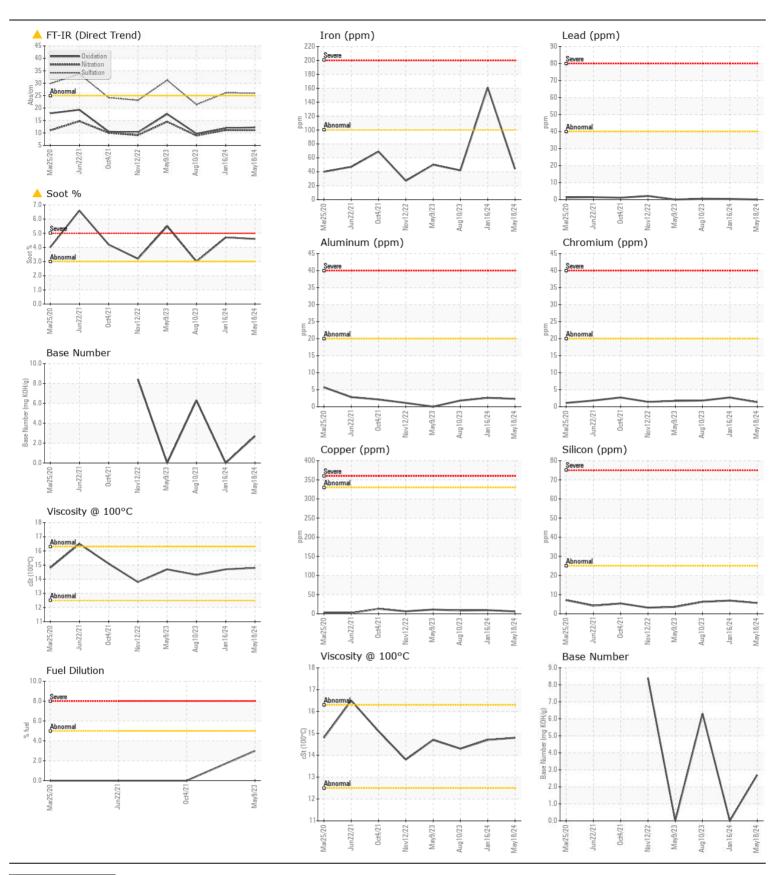
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

Machine Id A-339
Component
Diesel Engine

<b>RECOMMENDATION</b> Test		UOM	Method	Limit/Abn	Current	History1	History2
Samo	ple Number	OOW	Client Info	LIIIIUADII	DC0035304	DC0020731	DC002974
The oil change at the time of sampling has been noted. Please specify	ple Namber		Client Info		18 May 2024		10 Aug 202
the component make and model with your next sample		hrs	Client Info		31544	30877	30042
Oil A	-	hrs	Client Info		667	835	683
	-	hrs	Client Info		667	835	683
	Changed		Client Info		Changed	Changed	Changed
	r Changed		Client Info		Changed	Changed	Changed
	ple Status				ABNORMAL	ABNORMAL	ABNORMA
WEAR Iron		nnm	ASTM D5185m	<100	44	<u> </u>	42
		ppm	ASTM D5185m		1	3	2
All component wear rates are normal.		ppm		>4	0	0	<1
		ppm	ASTM D5185m	77	0	0	<1
		ppm	ASTM D5185m	<b>\3</b>	0	0	0
		ppm	ASTM D5185m	-	2	3	2
Leac		ppm	ASTM D5185m		0	<1	<1
Copp		ppm	ASTM D5185m		6	9	9
Tin		ppm	ASTM D5185m		0	<1	<1
		ppm	ASTM D5185m		0	0	<1
		scalar	*Visual	NONE	NONE	NONE	NON
		scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	on	ppm	ASTM D5185m	>25	6	7	6
ight concentration of carbon/coot procent in the oil		ppm	ASTM D5185m	>20	3	<1	4
Light concentration of carbon/soot present in the oil.		%	ASTM D3524	>5	<1.0	<1.0	<1.0
Water			WC Method	>0.2	NEG	NEG	NEG
Glyc			WC Method		NEG	NEG	NEG
Soot		%	*ASTM D7844		<b>4.6</b>	<u>4.7</u>	<u></u> 3
Nitra		Abs/cm	*ASTM D7624	>20	11.1	11.1	8.9
Sulfa		Abs/.1mm	*ASTM D7415		26.0	26.1	21.4
Silt		scalar	*Visual	NONE	NONE	NONE	NON
Debr		scalar	*Visual	NONE	NONE	NONE	NON
		scalar	*Visual	NONE	NONE	NONE	NON
•		scalar	*Visual	NORML	NORML	NORML	NORN
Odo	r Isified Water	scalar	*Visual	NORML >0.2	NORML NEG	NORML NEG	NORN NEG
Emul	isilieu vvalei	Scalar	VISUAI	>0.2	NEG	NEG	INEG
Emul						1	1
	ium	ppm	ASTM D5185m		2		2
FLUID CONDITION Sodi		ppm ppm	ASTM D5185m ASTM D5185m		3	4	_
LUID CONDITION  Sodi Boro The BN result indicates that there is suitable alkalinity remaining in the	on					4	11
FLUID CONDITION  The BN result indicates that there is suitable alkalinity remaining in the bil. The oil is no longer serviceable due to the presence of  Sodi Boro Barit Molvi	on um	ppm	ASTM D5185m		3		
The BN result indicates that there is suitable alkalinity remaining in the iil. The oil is no longer serviceable due to the presence of ontaminants.  Sodi Boro Bariu Moly	on um /bdenum	ppm ppm	ASTM D5185m ASTM D5185m		3 0	0	11
The BN result indicates that there is suitable alkalinity remaining in the bil. The oil is no longer serviceable due to the presence of contaminants.  Sodi Boro Baric Moly Man	on um /bdenum ganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		3 0 4	0 5	11 5
The BN result indicates that there is suitable alkalinity remaining in the bil. The oil is no longer serviceable due to the presence of contaminants.  Sodi Boro Baric Moly Man	on um /bdenum ganese nesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		3 0 4 0	0 5 2	11 5 <1
FLUID CONDITION  The BN result indicates that there is suitable alkalinity remaining in the bil. The oil is no longer serviceable due to the presence of contaminants.  Sodi Boro Barit Moly Man Mag Calc	on um /bdenum ganese nesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		3 0 4 0 57	0 5 2 60	11 5 <1 76
The BN result indicates that there is suitable alkalinity remaining in the bil. The oil is no longer serviceable due to the presence of contaminants.  Sodi Boro Barit Moly Man Mag Calc	on um /bdenum ganese nesium sium sphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		3 0 4 0 57 2187	0 5 2 60 2337	11 5 <1 76 2137
FLUID CONDITION  The BN result indicates that there is suitable alkalinity remaining in the bil. The oil is no longer serviceable due to the presence of contaminants.  Sodi Boro Bariu Moly Mangan Magi Calc	on um /bdenum ganese nesium cium sphorus	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		3 0 4 0 57 2187 777	0 5 2 60 2337 891	11 5 <1 76 2137 836
FLUID CONDITION  The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.  Sodi Boro Bariu Moly Many Magi Calc Phose Zinc Sulfu	on um vbdenum ganese nesium cium sphorus	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25	3 0 4 0 57 2187 777 1087	0 5 2 60 2337 891 1066	11 5 <1 76 2137 836 1033
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.  Sodi Boro Bariu Moly Many Magi Calc Phose Zinc Sulfu Oxid	on um /bdenum ganese nesium cium sphorus	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7414	>25	3 0 4 0 57 2187 777 1087 3401	0 5 2 60 2337 891 1066 4085	11 5 <1 76 2137 836 1033 3453





Certificate L2367

Laboratory Sample No. Lab Number Unique Number: 11099236

: DC0035304 : 06221039

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

**Tested** Diagnosed Test Package: MOB 1 (Additional Tests: FuelDilution, TBN)

: 26 Jun 2024 : 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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