WEAR CONTAMINATION **FLUID CONDITION**

ABNORMAL NORMAL **NORMAL**

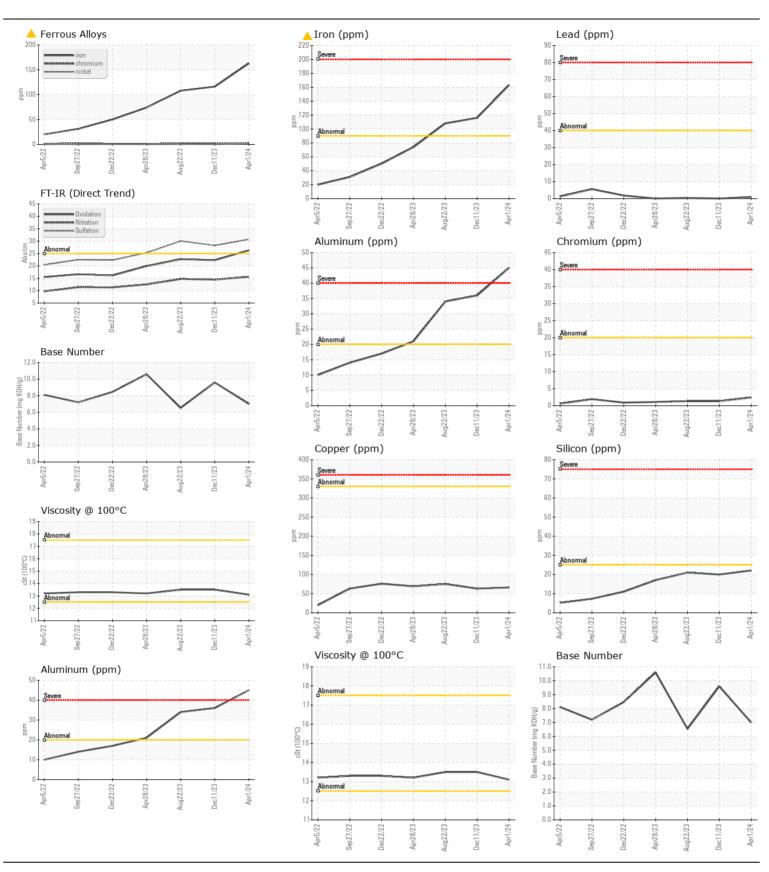
OIL ANALYSIS REPORT

Machine Id

THOMAS BUS 0

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06160593	TR06046340	TR059565
No corrective action is recommended at this time. Oil and filter change	Sample Date		Client Info		01 Apr 2024	11 Dec 2023	22 Aug 202
at the time of sampling has been noted. Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		1742	1488	1358
	Oil Age	hrs	Client Info		1120	866	736
	Filter Age	hrs	Client Info		254	130	197
	Oil Changed		Client Info		Changed	Not Changd	Not Chan
	Filter Changed		Client Info		Changed	Changed	Change
	Sample Status				ABNORMAL	ABNORMAL	ABNORM
VEAR	Iron	ppm	ASTM D5185m	>90	163	<u> </u>	<u>108</u>
	Chromium	ppm	ASTM D5185m	>20	2	1	1
Piston, ring and cylinder wear is indicated.	Nickel	ppm	ASTM D5185m	>2	2	0	<1
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	45	△ 36	4 34
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	66	63	75
	Tin	ppm	ASTM D5185m	>15	1	<1	1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	22	20	21
	Potassium	ppm	ASTM D5185m	>20	232	199	237
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Test for glycol is negative. There is no indication of any contamination in the oil. No other contaminants were detected in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	0.0	NEG
	Soot %	%	*ASTM D7844	>6	0.9	0.8	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	15.6	14.4	14.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	30.7	28.2	30.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		9	6	10
The BN regult indicates that there is quitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		5	7	7
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	0	0
	Molybdenum	ppm	ASTM D5185m		102	99	102
	Manganese	ppm	ASTM D5185m		2	2	2
	Magnesium	ppm	ASTM D5185m		91	95	104
	Calcium	ppm	ASTM D5185m		3205	3041	3068
	Phosphorus	ppm	ASTM D5185m		1046	907	950
	Zinc	ppm	ASTM D5185m		1203	1148	1190
			AOTH DELOS		4500	0540	1000
	Sulfur	ppm	ASTM D5185m		4593	3513	4293
	Sulfur Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414	>25	26.3 7.00	22.3 9.59	22.7 6.53





Laboratory Sample No.

Lab Number Unique Number: 10996016

: TR06160593 : 06160593

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

Diagnosed

: 26 Apr 2024

: 25 Apr 2024

: 26 Apr 2024 - Sean Felton

BOW SCHOOL DIST BUS GARAGE 12 RODINSON RD

BOW, NH US 03304 Contact: DON PERCY

Test Package : MOB 2 (Additional Tests: Glycol) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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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