

WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

OIL ANALYSIS REPORT

Machine Id **THOMAS BUS 3** Component **Diesel Engine** Fluid **TRC MOLY XL PRO-SPEC IV XP 15W40 (18 QTS)**

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		TR06229312	TR06160597	TR06102557
	Sample Date		Client Info		25 Jun 2024	17 Apr 2024	30 Nov 2023
	Machine Age	hrs	Client Info		5638	5478	5282
	Oil Age	hrs	Client Info		1261	1101	905
	Filter Age	hrs	Client Info		160	196	186
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>130	<b>1</b> 57	<b>1</b> 32	97
	Chromium	ppm	ASTM D5185m	>10	3	2	1
Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m		1	1	<1
	Titanium	ppm	ASTM D5185m		1	<1	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		19	19	14
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m		6	5	3
	Tin	ppm	ASTM D5185m		1	1	1
	Vanadium	ppm	ASTM D5185m		1	<1	<1
	White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>_</u> 25	11	10	8
	Potassium	ppm	ASTM D5185m		17	17	11
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	2.9	2.6	2.2
	Nitration	Abs/cm	*ASTM D7624	>20	16.9	15.6	14.1
	Sulfation	Abs/.1mm	*ASTM D7415		33.6	31.5	28.7
	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		4	5	3
	Boron	ppm	ASTM D5185m		2	0	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	0	0
	Molybdenum	ppm	ASTM D5185m		134	127	125
	Manganese	ppm	ASTM D5185m		2	2	<1
	Magnesium	ppm	ASTM D5185m		22	21	22
	Calcium	ppm	ASTM D5185m		4550	4499	4885
	Phosphorus	ppm	ASTM D5185m		976	1070	959
	Zinc	ppm	ASTM D5185m		1179	1170	1249
	Sulfur	ppm	ASTM D5185m		4286	5438	4586
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.4	21.7	18.4
	Base Number (BN)			-	10.43	9.99	11.61
	Vies (2.10000	- 01	AOTA DA45		45.0	15.0	45.0

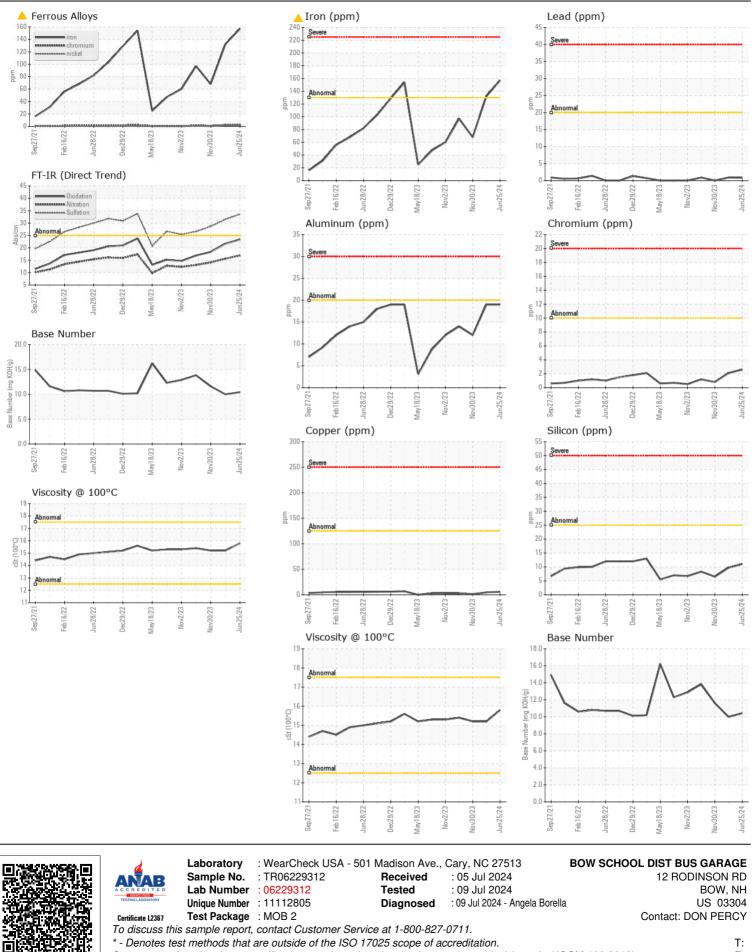
Visc @ 100°C cSt

ASTM D445

15.2

15.2

15.8



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

Contact/Location: DON PERCY - BOWBOWNH Page 2 of 2

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