WEAR CONTAMINATION **FLUID CONDITION**

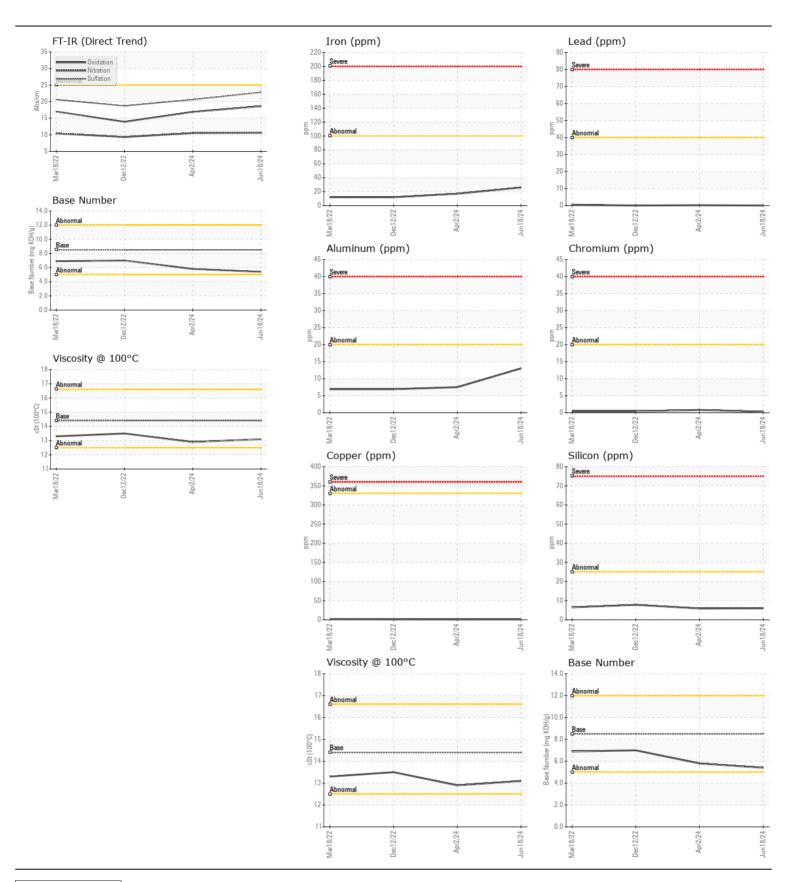
NORMAL NORMAL NORMAL

Machine Id

THOMAS 1725

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0949010	WC0906226	WC0761249
	Sample Date		Client Info		18 Jun 2024	02 Apr 2024	12 Dec 202
	Machine Age	mls	Client Info		0	64902	34292
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Change
	Filter Changed		Client Info		Not Changd	Not Changd	Not Change
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	26	17	12
	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	<1	0
	Aluminum	ppm	ASTM D5185m		13	8	7
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m	>330	1	1	1
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	\25	6	6	8
ONTAMINATION	Potassium	ppm	ASTM D5185m		26	7	21
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. 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	0.6	0.5	0.2
	Nitration	Abs/cm	*ASTM D7624		10.6	10.5	9.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	20.6	18.7
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m	<158	3	3	5
FLOID CONDITION	Boron	ppm	ASTM D5185m		21	27	38
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	1
	Molybdenum	ppm	ASTM D5185m		86	81	77
	Manganese	ppm	ASTM D5185m	100	0	0	<1
	Magnesium	ppm	ASTM D5185m	450	131	124	40
	Calcium	ppm	ASTM D5185m		2034	1902	2048
	Phosphorus	ppm	ASTM D5185m		921	901	954
	Zinc	ppm	ASTM D5185m		1245	1122	1147
	Sulfur	ppm	ASTM D5185m		3248	3443	3572
	Oxidation	Abs/.1mm	*ASTM D7414		18.6	16.9	13.9
	Base Number (BN)				5.4	5.8	7.0
	, ,	cSt		14.4		12.9	13.5





Report Id: WCPRAL [WUSCAR] 06220919 (Generated: 06/27/2024 11:05:56) Rev: 1

Laboratory Sample No. Unique Number: 11099116

Lab Number : 06220919

: WC0949010

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

Diagnosed

: 27 Jun 2024 : 27 Jun 2024 - Wes Davis

: 26 Jun 2024

WAKE COUNTY PUBLIC SCHOOL SYSTEM 1551 ROCK QUARRY ROAD

RALEIGH, NC US 27610

Contact: DEVIN WEBER dweber@wcpss.net T: (919)856-8076

Test Package : MOB 1 (Additional Tests: TBN) Certificate L2367 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)

Contact/Location: DEVIN WEBER - WCPRAL

F: x: