WEAR CONTAMINATION FLUID CONDITION

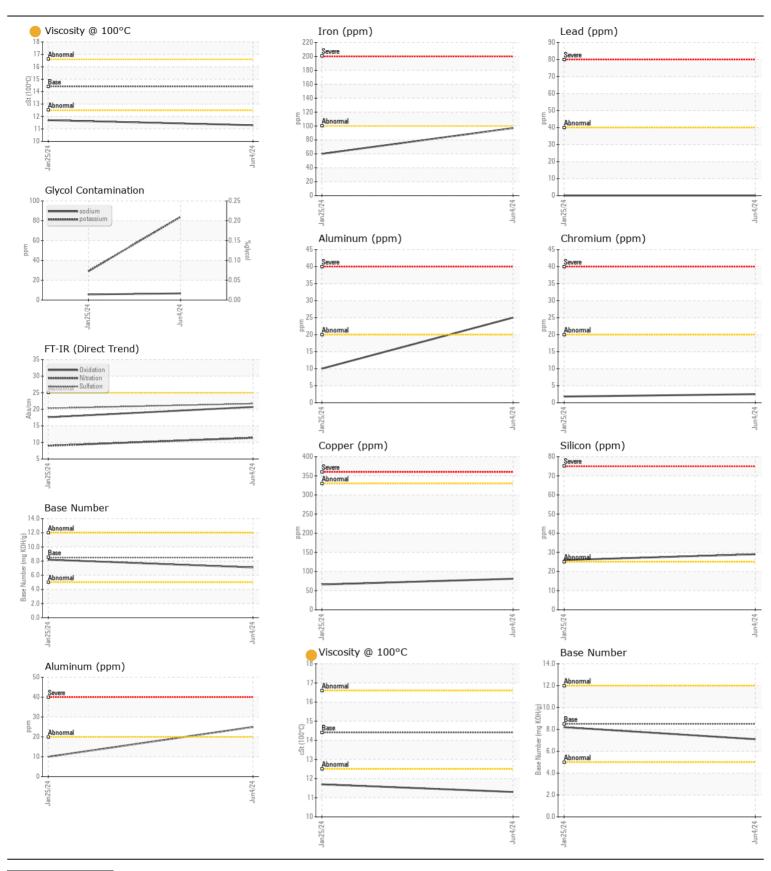
NORMAL NORMAL ATTENTION

Machine Id

1854

Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (QTS) RECOMMENDATION	- .			11 1/141	()	112.1	110 1 -
	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		WC0948942	WC0870850 25 Jan 2024	
	Sample Date Machine Age	mlo	Client Info		04 Jun 2024 10674	4092	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls mls	Client Info		0	0	
	Oil Changed	11115	Client Info		Not Changd		
	Filter Changed		Client Info		N/A	Not Change	
	Sample Status		Olletti IIIIO		ATTENTION	ATTENTION	
<u></u>						ATTENTION	
VEAR	Iron	ppm	ASTM D5185m	>100	97	60	
	Chromium	ppm	ASTM D5185m	>20	2	2	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	0	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	25	10	
	Lead	ppm	ASTM D5185m	>40	0	0	
	Copper	ppm	ASTM D5185m	>330	81	66	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 25	29	26	
CONTAIMINATION		ppm	ASTM D5185m		29 84	29	
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. No other contaminants were detected in the oil.	Potassium Fuel	ppm %	ASTM D3163111			1.6	
	Water	/0	WC Method		<1.0 NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	~3	0.5	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	11.4	9.0	
	Sulfation	Abs/.1mm	*ASTM D7415		21.7	20.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water			>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	7	6	
	Boron	ppm	ASTM D5185m	250	26	42	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m	10	7	4	
	Molybdenum	ppm	ASTM D5185m	100	48	56	
	Manganese	ppm	ASTM D5185m		5	4	
	Magnesium	ppm	ASTM D5185m	450	761	676	
	Calcium	ppm	ASTM D5185m	3000	1257	1368	
	Phosphorus	ppm	ASTM D5185m	1150	702	875	
	Zinc	ppm	ASTM D5185m	1350	880	1005	
	Sulfur	ppm	ASTM D5185m	4250	2533	2872	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.7	17.6	
	Oxidation	/\U3/.1111111	7101111 27 111		_0	17.0	





Certificate L2367

Laboratory Sample No.

: WC0948942 Lab Number : 06220906

Unique Number : 11099103

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

: 27 Jun 2024 Diagnosed

: 27 Jun 2024 - Don Baldridge Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

WAKE COUNTY PUBLIC SCHOOL SYSTEM 1551 ROCK QUARRY ROAD RALEIGH, NC US 27610

Contact/Location: DEVIN WEBER - WCPRAL

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

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)

F: x: