WEAR
CONTAMINATION
FLUID CONDITION

NORMAL NORMAL

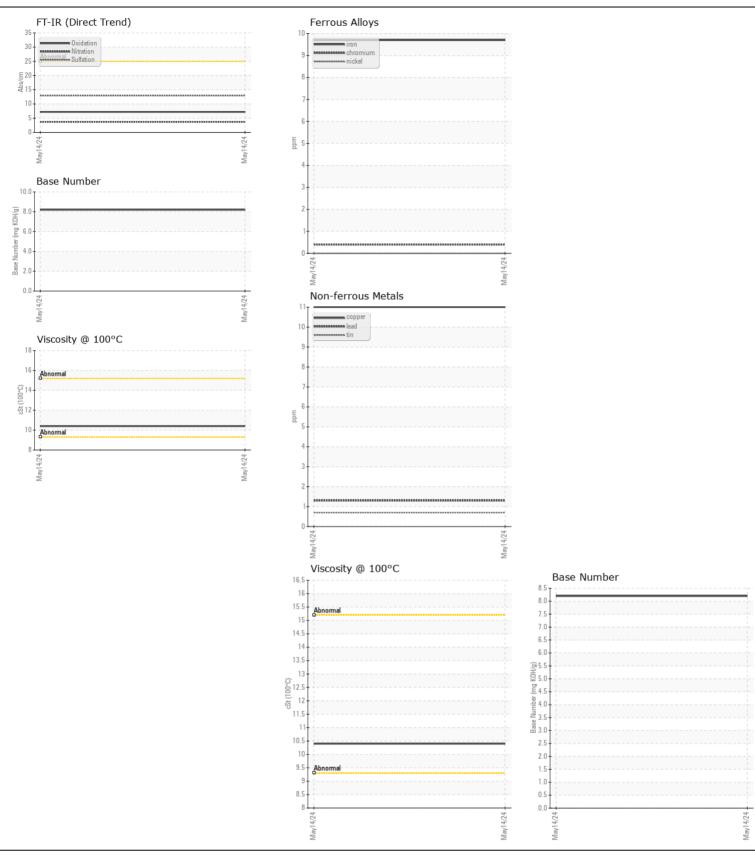
Machine Id

528 (S/N 115770)

Diesel Engine

VOLVO ULTRA DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		ML0001664		
	Sample Date		Client Info		14 May 2024		
	Machine Age	hrs	Client Info		56		
	Oil Age	hrs	Client Info		56		
	Filter Age	hrs	Client Info		56		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	10		
	Chromium	ppm	ASTM D5185m		<1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		11		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		18		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		1		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>20	0.1 3.7		
	Sulfation	Abs/.1mm	*ASTM D7624		12.9		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		<1		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		8		
	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		15		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		847		
	Calcium	ppm	ASTM D5185m		1492		
	Phosphorus	ppm	ASTM D5185m		1170		
	Zinc	ppm	ASTM D5185m		1346		
	Sulfur	ppm	ASTM D5185m		4239		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	7.2		
	Base Number (BN)	0 0	ASTM D2896		8.2		
	Visc @ 100°C	cSt	ASTM D445		10.4		







Certificate L2367

Laboratory Sample No.

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

: ML0001664 Lab Number : 06195063

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.

Unique Number : 11057186 Test Package : CONST (Additional Tests: TBN)

Received **Tested** Diagnosed

: 30 May 2024 : 31 May 2024

: 31 May 2024 - Sean Felton

MCCLUNG-LOGAN EQUIPMENT CO - CHESAPEAKE 4112 HOLLAND BLVD

CHESAPEAKE, VA US 23323

Contact: TOMMY GRIFFIN tgriffin@mcclung-logan.com

T: (757)485-3314 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (757)485-3415

Contact/Location: TOMMY GRIFFIN - VOLVO0264