WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

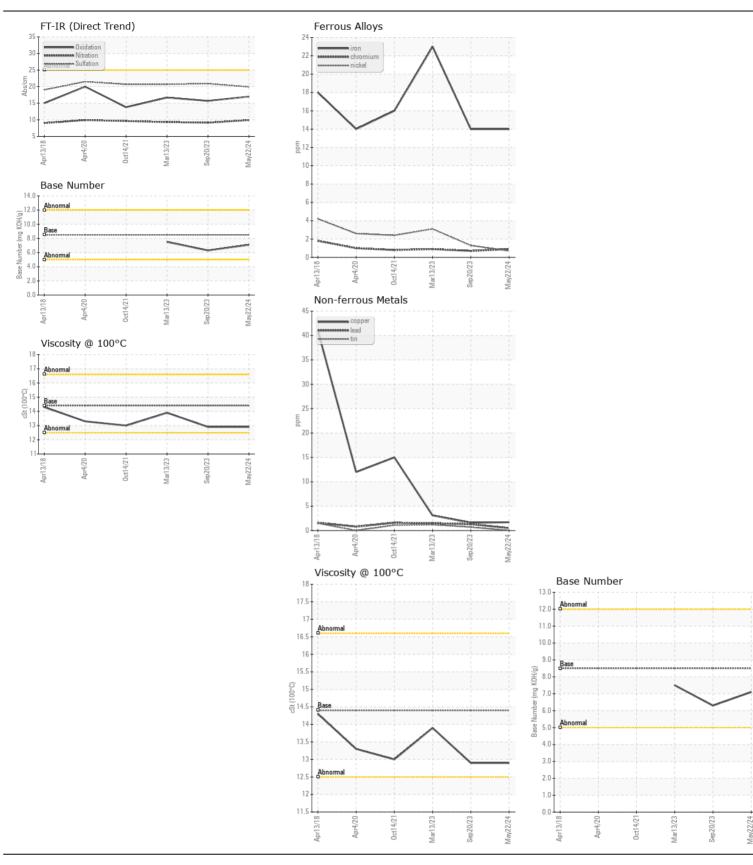


Machine Id VOLVO A40G 340455

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEOOMINIENDATION	Sample Number	00111	Client Info	Little	ML0001768	,	VCP402987
Resample at the next service interval to monitor.	Sample Date		Client Info		22 May 2024	20 Sep 2023	13 Mar 2023
	Machine Age	hrs	Client Info		5148	5148	4097
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	14	14	23
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	1	3
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>25	3	2	8
	Lead	ppm	ASTM D5185m		<1	1	2
	Copper	ppm	ASTM D5185m		2	2	3
	Tin	ppm	ASTM D5185m	>15	0	<1	1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	8	19
CONTAININATION	Potassium	ppm	ASTM D5185m		0	2	2
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	<i>></i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\ 3	0.3	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624		9.9	9.1	9.3
	Sulfation	Abs/.1mm	*ASTM D7415		19.9	20.9	20.7
	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		3	2	<1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		37	98	38
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	52	59	59
	Manganese	ppm	ASTM D5185m	4=6	<1	<1	<1
	Magnesium	ppm	ASTM D5185m		696	518	301
	Calcium	ppm	ASTM D5185m		1444	1766	1683
	Phosphorus	ppm	ASTM D5185m		780	969	856
	Zinc	ppm	ASTM D5185m		930	1192	1011
	Sulfur	ppm	ASTM D5185m		2851	3807	2485
	Oxidation	Abs/.1mm	*ASTM D7414		17.0	15.7	16.7
	Base Number (BN)		ASTM D2896		7.1	6.3	7.5
	Visc @ 100°C	cSt	ASTM D445	14.4	12.9	12.9	13.9







Certificate L2367

Laboratory Sample No.

Lab Number : 06193496 Unique Number : 11050248 Test Package : CONST (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ML0001768 Received : 29 May 2024 **Tested**

Diagnosed

: 30 May 2024 : 30 May 2024 - Sean Felton

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND 1345 MOUNTAIN ROAD

GLEN ALLEN, VA US 23060

Contact: KYLE RATLIFFE KRATLIFFE@MCCLUNG-LOGAN.COM

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.

T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)266-1611