WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

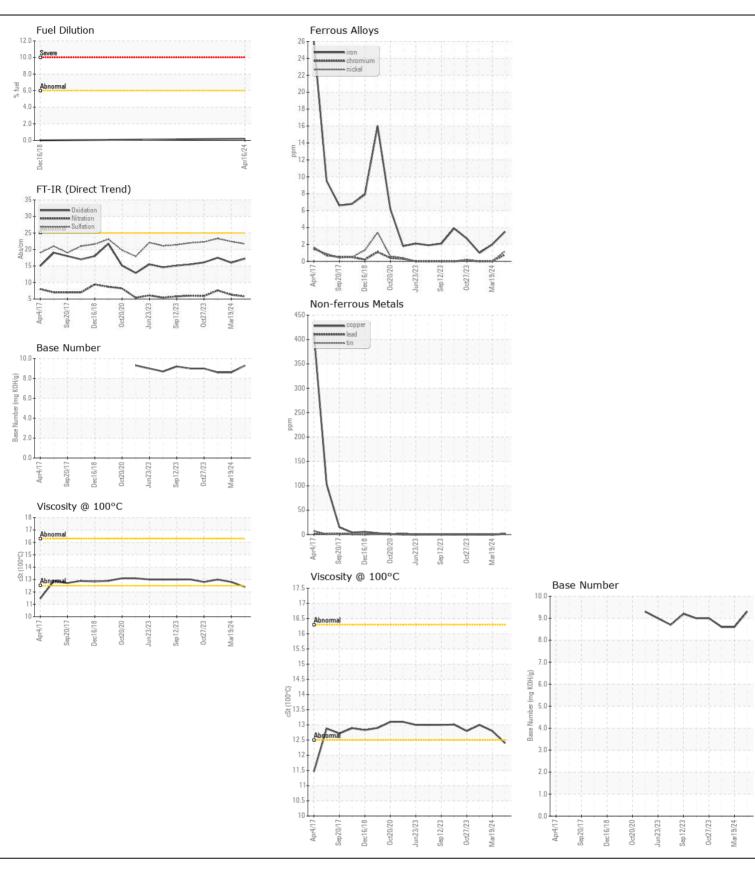
Area

[W05004161]
WOLVO A40G 341427
Component

Diesel Engine

MOBIL 15W40 (15 GAL)

MOBIL 15W40 (15 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ML0000447	ML0000396	VCP189544
Resample at the next service interval to monitor. ( Customer Sample Comment: W05004161 )	Sample Date		Client Info		16 Apr 2024	19 Mar 2024	08 Jan 2024
	Machine Age	hrs	Client Info		11524	11295	11033
	Oil Age	hrs	Client Info		250	250	250
	Filter Age	hrs	Client Info		250	250	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	4	2	1
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	0	0
	Nickel	ppm	ASTM D5185m	>2	1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	3	2
	Lead	ppm	ASTM D5185m	>40	1	0	<1
	Copper	ppm	ASTM D5185m	>330	1	<1	0
	Tin	ppm	ASTM D5185m	>15	1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	4	5
CONTAININATION	Potassium	ppm	ASTM D5185m		2	2	<1
Fuel content negligible. There is no indication of any contamination in	Fuel	%	ASTM D3524	>6.0	0.2	<1.0	<1.0
the oil.	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.8	6.3	7.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	22.4	23.3
	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	>118	2	4	<1
	Boron	ppm	ASTM D5185m		220	323	300
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0	0	0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		83	122	113
	Manganese	ppm	ASTM D5185m		1	<1	0
	Magnesium	ppm	ASTM D5185m		545	668	626
	Calcium	ppm	ASTM D5185m		1535	1495	1579
	Phosphorus	ppm	ASTM D5185m		879	737	735
	Zinc	ppm	ASTM D5185m		947	852	933
	Sulfur	ppm	ASTM D5185m		3022	2916	2537
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	16.0	17.5
	Base Number (BN)				9.3	8.6	8.6
	Visc @ 100°C	cSt	ASTM D445		12.4	12.8	13.0







Certificate L2367

Laboratory Sample No.

**Lab Number** : 06152745

: ML0000447 Unique Number: 10982823

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

**Tested** Diagnosed Test Package : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN )

: 18 Apr 2024 : 23 Apr 2024

: 23 Apr 2024 - Jonathan Hester

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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)