WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

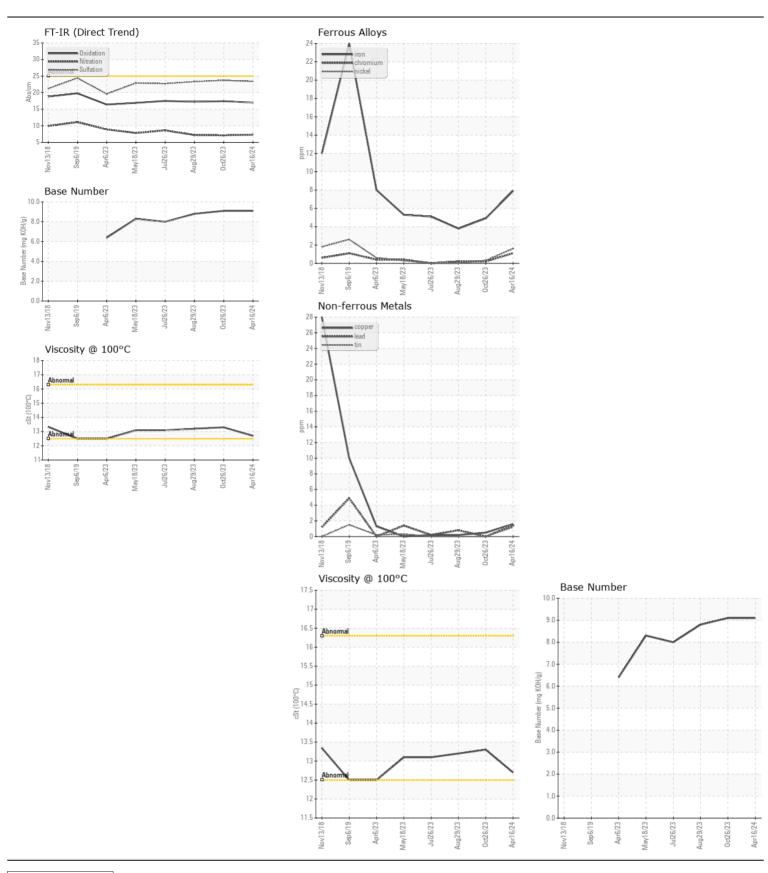
Area

[W05004160]
WOLVO A40G 341170
Component

Diesel Engine

MOBIL 15W40 (15 GAL)

MOBIL 15W40 (15 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LIIIIUAUII	ML0000446	,	VCP420836
Resample at the next service interval to monitor. ( Customer Sample Comment: W05004160 )	Sample Date		Client Info		16 Apr 2024	26 Oct 2023	29 Aug 2023
	Machine Age	hrs	Client Info		11296	10875	10638
	Oil Age	hrs	Client Info		250	250	500
	Filter Age	hrs	Client Info		250	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAD			AOTM DE405	400		_	4
WEAR	Iron	ppm	ASTM D5185m		8	5	4
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		1	<1	<1
·	Titanium	ppm	ASTM D5185m ASTM D5185m	>2	2 <1	<1 0	0 <1
	Silver	ppm	ASTM D5185m	. 2	<1 <1		0
	Aluminum	ppm ppm	ASTM D5185m		6	<1 3	2
	Lead		ASTM D5185m		1	0	<1
	Copper	ppm	ASTM D5185m		2	<1	<1
	Tin	ppm	ASTM D5185m		1	0	0
	Vanadium	ppm	ASTM D5185m	710	- <1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		10	6	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	1	3
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	7.1	7.2
	Sulfation	Abs/.1mm	*ASTM D7415		23.4	23.7	23.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt Appearance	scalar scalar	*Visual *Visual	NONE NORML	NONE NORML	NONE NORML	NONE NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
			VIOUGI			1420	IVLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	1	0	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		495	437	357
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	4	0
on. The condition of the on is suitable for further service.	Molybdenum	ppm	ASTM D5185m		167	135	126
	Manganese	ppm	ASTM D5185m		1	0	<1
	Magnesium	ppm	ASTM D5185m		832	654	726
	Calcium	ppm	ASTM D5185m		2028	1497	1743
	Phosphorus	ppm	ASTM D5185m		1054	741	822
	Zinc	ppm	ASTM D5185m		1131	841	1001
	Sulfur	ppm	ASTM D5185m	05	3857	2490	3473
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	17.4	17.2
	Base Number (BN) Visc @ 100°C		ASTM D2896 ASTM D445		9.1	9.1	8.8 13.2
	VISC @ 100 C	cSt	43 LIVI D443		12.7	13.3	10.4







Laboratory Sample No.

: ML0000446 **Lab Number** : 06152748 Unique Number: 10982826

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

Diagnosed

: 18 Apr 2024 : 22 Apr 2024 - Don Baldridge

: 18 Apr 2024

MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS

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Contact: MIKE MAYHUGH

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Test Package : CONST (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)

F: (703)393-7844