WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

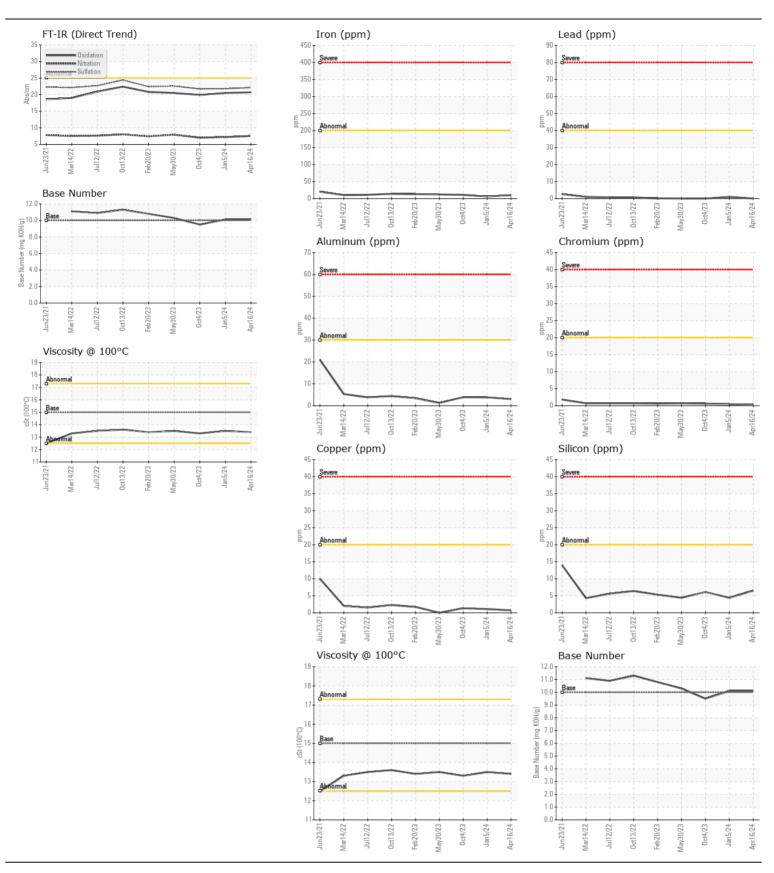
## [SWO-071203]

## VOLVO L120H 632828 Component



VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

VOLVO ULTRA DIESEL ENGIN	E OIL 13W4	OVD	5-3 ( 0	IAL)			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP449837	VCP447529	VCP43296
	Sample Date		Client Info		16 Apr 2024	05 Jan 2024	04 Oct 202
	Machine Age	hrs	Client Info		4868	4372	3901
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	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	>200	10	6	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	1	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m	>30	3	4	4
	Lead	ppm	ASTM D5185m	>40	0	1	0
	Copper	ppm	ASTM D5185m	>20	<1	1	1
	Tin	ppm	ASTM D5185m		<1	<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	>20	6	4	6
	Potassium	ppm	ASTM D5185m		0	<1	0
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	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<b>\</b> 3	0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.2	7.0
	Sulfation	Abs/.1mm	*ASTM D7415		22.1	21.8	21.7
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
EL LUID CONDITION	0 15		AOTA DEADE				
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0 F	3	2	3
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		34	21	30
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		40	39	39
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		473	547	514
	Calcium	ppm	ASTM D5185m		1637	1607	1631
	Phosphorus	ppm	ASTM D5185m		860	939	941
	Zinc	ppm	ASTM D5185m		976	1137	1110
	Sulfur	ppm	ASTM D5185m		2992	2980	2807
	Oxidation	Abs/.1mm	*ASTM D7414		20.7	20.5	19.9
	Base Number (BN)				10.1	10.1	9.5
	Visc @ 100°C	cSt	ASTM D445	15.0	13.4	13.5	13.3





Certificate L2367

Laboratory Sample No.

Lab Number

: VCP449837 : 06155532 Unique Number: 10990955

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.

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

**Tested** Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

: 22 Apr 2024 : 22 Apr 2024

: 24 Apr 2024 - Sean Felton

SAIIA CONSTRUCTION LLC 4400 LEWISBURG RD BIRMINGHAM, AL

US 35207 Contact: STEPHANI BRITTON

sbritton@saiia.com;doug.bogart@wearcheck.com

T: (205)943-2268 F: (205)943-2269 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)