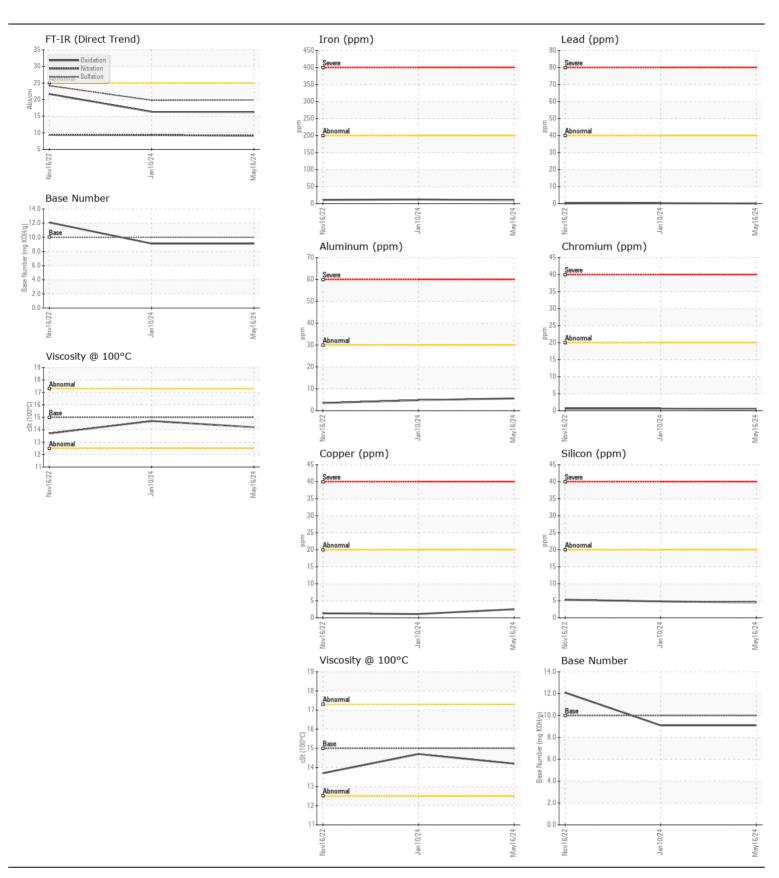
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

[716046 IAA]

VOLVO L90H 625538



DECOMMEND ATION	- .	11011		11 1974	()	Line is a	
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP433178	VCP433181	VCP382379
	Sample Date	laua	Client Info		16 May 2024	10 Jan 2024	16 Nov 202
	Machine Age	hrs	Client Info		5691	5139	3412
	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 Sample Status		Client Info		Changed NORMAL	Changed NORMAL	N/A NORMAL
WEAR	Iron	ppm	ASTM D5185m	>200	10	12	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>30	6	5	4
	Lead	ppm	ASTM D5185m	>40	0	<1	<1
	Copper	ppm	ASTM D5185m	>20	2	1	1
	Tin	ppm	ASTM D5185m	>20	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	5	5
	Potassium	ppm	ASTM D5185m	>20	1	2	0
There is no indication of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.7	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	9.3	9.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	19.8	24.2
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	2
	Boron	ppm	ASTM D5185m	2.5	<1	0	11
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0.7	64	65	47
	Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	256	1030	1101	599
	Calcium	ppm	ASTM D5185m	2057	1144	1112	1733
	Phosphorus	ppm	ASTM D5185m	935	1109	1159	994
	Zinc	ppm	ASTM D5185m	1223	1340	1379	1168
	Sulfur	ppm	ASTM D5185m	4079	3680	3291	3538
	Oxidation	Abs/.1mm	*ASTM D7414		16.2	16.3	21.7
	Base Number (BN)	mg KOH/g	ASTM D2896	10	9.1	9.1	12.1
	Visc @ 100°C	cSt	ASTM D445		14.2	14.7	13.7







Laboratory Sample No.

Lab Number : 06185786

: VCP433178 Unique Number : 11042538

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

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

: 22 May 2024

: 21 May 2024

: 23 May 2024 - Jonathan Hester

US 33314 Contact: N. FACEY nfacey@altaequipfl.com T: (954)581-4744

ALTA EQUIPMENT COMPANY

5210 REESE ROAD

* - 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: (954)583-0318

DAVIE, FL