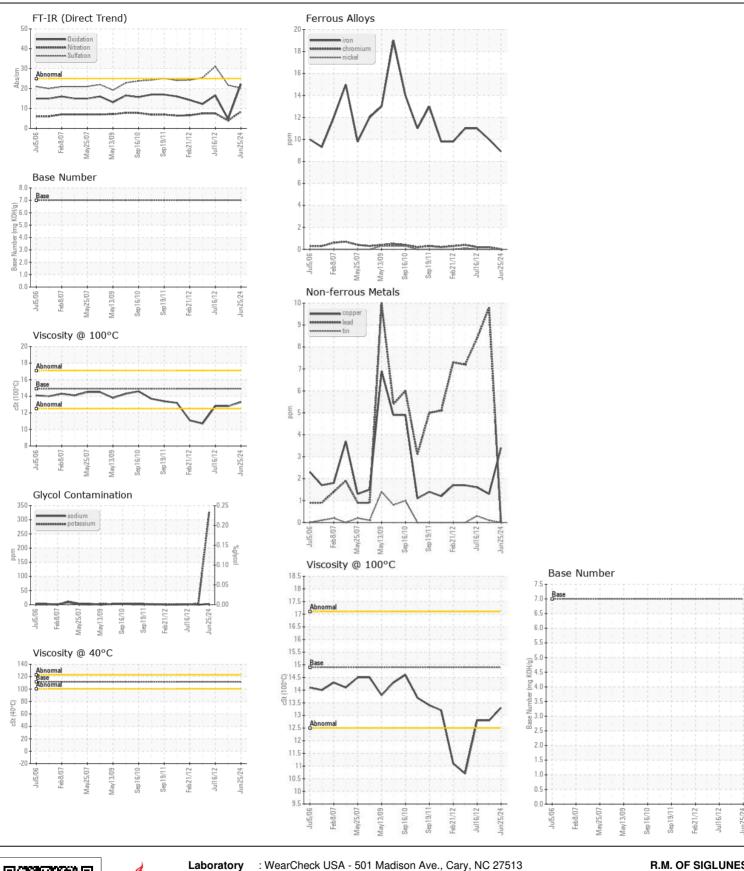
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**



Machine Id VOLVO G780B 38178 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LIIIIII/AUII	LH0272061	-	VC466806
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		25 Jun 2024		16 Jul 2012
	Machine Age	hrs	Client Info		1098	8823	8568
	Oil Age	hrs	Client Info		500	250	250
	Filter Age	hrs	Client Info		500	250	250
	Oil Changed	1110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	9	10	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	<1	<1
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>10	10	1	2
	Lead	ppm	ASTM D5185m	>20	0	10	8
	Copper	ppm	ASTM D5185m	>15	3	1	2
	Tin	ppm	ASTM D5185m	>10	0	<1	<1
	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	>20	10	2	2
33117 tillin (7111311	Potassium	ppm	ASTM D5185m	>20	329	3	1
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method	>4.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.4	3.9	7.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	21.7	31.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	LIGHT	VLITE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m		3	0	1
I LOID CONDITION	Boron	ppm	ASTM D5185m	775	253	2	16
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.	Barium	ppm	ASTM D5185m	113	0	<1	<1
	Molybdenum	ppm	ASTM D5185m	1000	838	<1	<1
	Manganese	ppm	ASTM D5185m	1000	<1	0	0
	Magnesium	ppm	ASTM D5185m	100	224	14	25
	Calcium	ppm	ASTM D5185m		712	2199	2431
	Phosphorus	ppm	ASTM D5185m		182	813	957
	Zinc	ppm	ASTM D5185m		208	1248	1277
	Sulfur	ppm	ASTM D5185m		2255	3682	3957
	Oxidation	Abs/.1mm	*ASTM D7414		22.3	4.7	16.6
	Base Number (BN)		ASTM D2896		2.9		







Certificate L2367

Sample No.

Lab Number : 06225540

: LH0272061

Received

Tested Unique Number : 11103737 Diagnosed : 01 Jul 2024

: 03 Jul 2024

: 03 Jul 2024 - Jonathan Hester Test Package: CONST (Additional Tests: Glycol, KV40, TBN)

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.

R.M. OF SIGLUNES

BOX 370 ASHERN, MB CA ROC 0E0

Contact: Service Manager

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