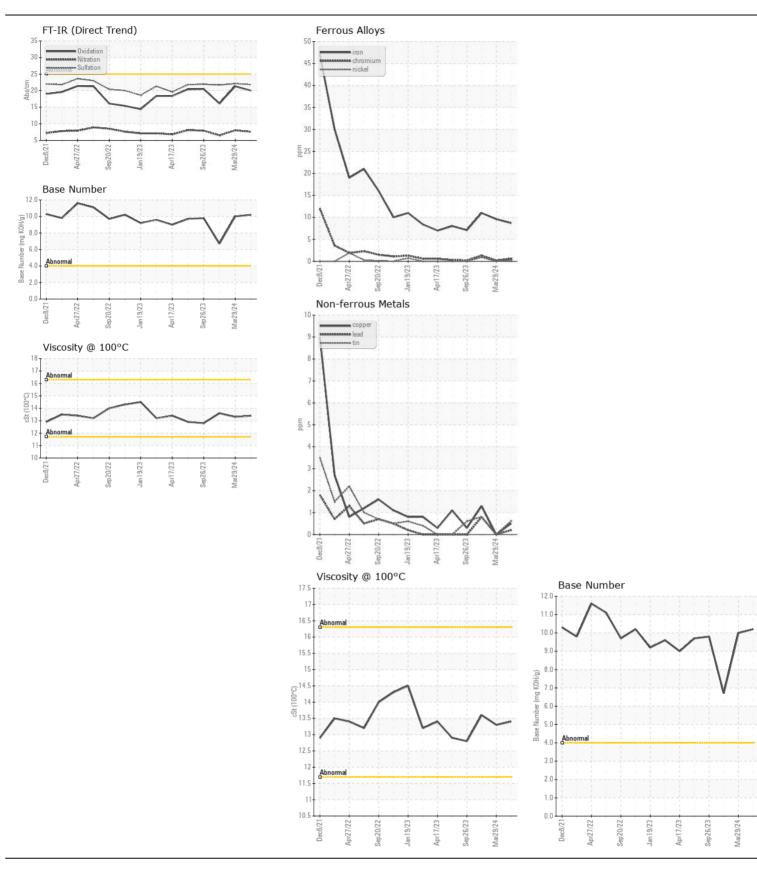
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Ascendum Machinery/Lilesville, NC **VOLVO L70H L70HV624391**

Diesel Engine

	or Oil 15W40						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0009512	ASC0005269	ASC0007976
	Sample Date		Client Info		06 Jun 2024	29 Mar 2024	30 Jan 2024
	Machine Age	hrs	Client Info		8740	8192	7547
	Oil Age	hrs	Client Info		548	645	1004
	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
VEAR	Iron	ppm	ASTM D5185m	>100	9	10	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	1
	Nickel	ppm	ASTM D5185m	>10	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>10	3	3	6
	Lead	ppm	ASTM D5185m	>20	<1	0	<1
	Copper	ppm	ASTM D5185m	>15	<1	0	1
	Tin	ppm	ASTM D5185m	>10	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	7	7	10
	Potassium	ppm	ASTM D5185m	>20	2	0	2
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	8.0	6.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	22.1	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	2	3
	Boron	ppm	ASTM D5185m		31	30	25
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
	Molybdenum	ppm	ASTM D5185m		44	41	41
	Manganese	ppm	ASTM D5185m		0	0	1
	Magnesium	ppm	ASTM D5185m		520	557	521
	Calcium	ppm	ASTM D5185m		1686	1917	1689
	Phosphorus	ppm	ASTM D5185m		862	1067	957
	Zinc	ppm	ASTM D5185m		1150	1270	1160
	Sulfur	ppm	ASTM D5185m		3128	3934	2853
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	21.3	16.1
	Base Number (BN)	mg KOH/g			10.2	10.0	6.7
	Visc @ 100°C	cSt	ASTM D445		13.4	13.3	13.6







Certificate L2367

Laboratory Unique Number : 11082750

Sample No. Lab Number : 06209886

: ASC0009512

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

Tested Diagnosed

: 14 Jun 2024 : 17 Jun 2024

: 17 Jun 2024 - Wes Davis

OLDCASTLE MATERIALS 900 ASHWOOD PARKWAY SUITE 600

ATLANTA, GA US 30338

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: BRIAN MELLO brian.mello@oldcastlematerials.com T: (800)899-8455

* - 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: