WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

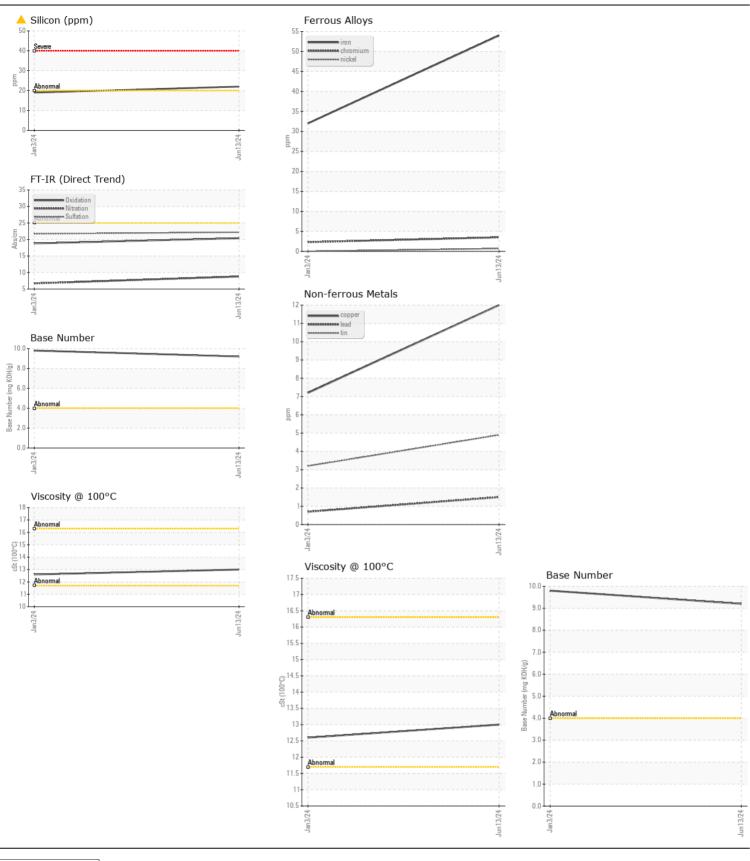
N

Ascendum Machinery VOLVO L90H 627016

Diesel Engine

VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- GAL)

VOLVO VDS-4.5 Premium Moto	r Oli 15W4C	((3AL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number	OOW	Client Info	LITTIOTOTT	ASC0009812	ASC0001522	,
	Sample Date		Client Info		13 Jun 2024	03 Jan 2024	
	Machine Age	hrs	Client Info		1005	449	
	Oil Age	hrs	Client Info		556	449	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed	1110	Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status		Olletti IIIIO		ABNORMAL	NORMAL	
					ADNOMINAL		
WEAR	Iron	ppm	ASTM D5185m	>100	54	32	
Metal levels are typical for a components first oil change.	Chromium	ppm	ASTM D5185m	>10	4	2	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>2	<1	0	
	Aluminum	ppm	ASTM D5185m	>10	10	8	
	Lead	ppm	ASTM D5185m		2	<1	
	Copper	ppm	ASTM D5185m	>15	12	7	
	Tin	ppm	ASTM D5185m		5	3	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	22	19	
Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m	>20	3	2	
	Fuel		WC Method	>6.0	<1.0	<1.0	
	Water		WC Method	>0.1	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.5	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	6.7	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	21.7	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Codium	nnm	ACTM DE10Em		4	0	
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m		4 34	3 49	
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 ASTM D5185m		4	2	
	Molybdenum	ppm	ASTM D5185m		4 49	37	
	•	ppm				4	
	Magagium	ppm	ASTM D5185m ASTM D5185m		5 627		
	Magnesium Calcium	ppm	ASTM D5185m		637 1857	589 1524	
	Phosphorus	ppm	ASTM D5185m		1018	974	
	Zinc	ppm	ASTM D5185m		1294		
	Sulfur	ppm	ASTM D5185m			1145 3259	
	Oxidation	ppm Abs/.1mm	*ASTM D7414	> 2F	3625 20.4	18.8	
	Base Number (BN)			>20	9.2	9.8	
	Visc @ 100°C	cSt	ASTM D445		13.0	12.6	







Certificate L2367

Laboratory Sample No.

Lab Number : 06213123

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0009812

Received **Tested** Unique Number: 11085987

: 19 Jun 2024 Diagnosed Test Package : CONST (Additional Tests: TBN)

: 20 Jun 2024 - Don Baldridge

: 18 Jun 2024

EGGER TIMBERPAK 1801 COTTONWOOD ST CHARLOTTE, NC

US 28206 Contact: Service Manager

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)

T:

F: