WEAR CONTAMINATION FLUID CONDITION

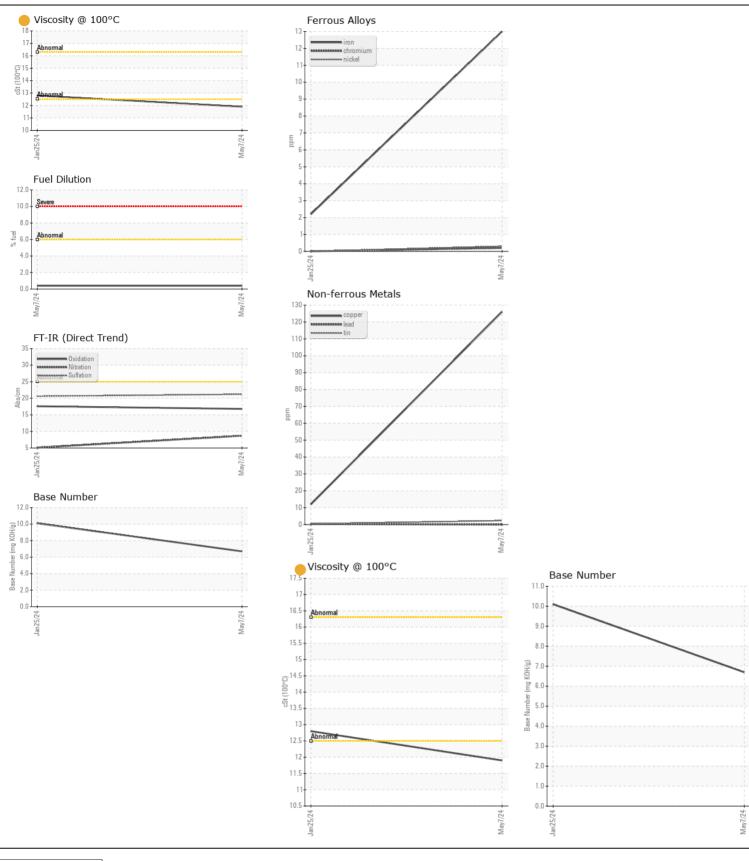
NORMAL NORMAL ATTENTION

Area

Ascendum Machinery/500 Hour CSA VOLVO A40G 2345 (S/N A40GV752039)

Diesel Engine

VOLVO VDS-4.5 Premium Mot	or Oil 15W40) (C	GAL)				
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		Client Info	Little	ASC0009986	ASC0007915	,
	Sample Date		Client Info		07 May 2024	25 Jan 2024	
	Machine Age	hrs	Client Info		976	658	
	Oil Age	hrs	Client Info		318	658	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ATTENTION	NORMAL	
WEAD	lua u		40TM DE40E	400	40		
WEAR	Iron	ppm	ASTM D5185m		13	2	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1	0	
	Nickel	ppm	ASTM D5185m	>2	<1	0	
	Titanium Silver	ppm	ASTM D5185m ASTM D5185m	- 2	0	0	
	Aluminum	ppm	ASTM D5185m		2	2	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		126	12	
	Tin	ppm	ASTM D5185m		2	<1	
	Vanadium	ppm	ASTM D5185m	7.0	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	16	10	
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	3	
	Fuel	%	ASTM D3524	>6.0	0.4	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	5.1	
	Sulfation	Abs/.1mm	*ASTM D7415		21.2	20.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris Sand/Dist	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt Appearance	scalar scalar	*Visual *Visual	NONE NORML	NONE NORML	NONE NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	1	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		55	88	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		63	41	
	Manganese	ppm	ASTM D5185m		3	<1	
	Magnesium	ppm	ASTM D5185m		251	412	
	Calcium	ppm	ASTM D5185m		1992	1617	
	Phosphorus	ppm	ASTM D5185m		978	919	
	Zinc	ppm	ASTM D5185m		1170	1076	
	Sulfur	ppm	ASTM D5185m	0.5	3936	2951	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	17.6	
	Base Number (BN)				6.7	10.1	
	Visc @ 100°C	cSt	ASTM D445		11.9	12.8	







Certificate L2367

Report Id: TRIBUR [WUSCAR] 06176692 (Generated: 05/15/2024 13:59:50) Rev: 1

Laboratory

Sample No.

: ASC0009986 Lab Number : 06176692 Unique Number : 11022745

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 May 2024 **Tested** : 15 May 2024

: 15 May 2024 - Sean Felton Diagnosed

TRIANGLE GRADING AND PAVING INC

1521 Huffman Mill Rd BURLINGTON, NC US 27216

F: (336)584-0145

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: KAREN HILLIARD khilliard@trianglegradingpaving.com To discuss this sample report, contact Customer Service at 1-800-237-1369. T: (336)584-1745

* - 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)