WEAR CONTAMINATION FLUID CONDITION

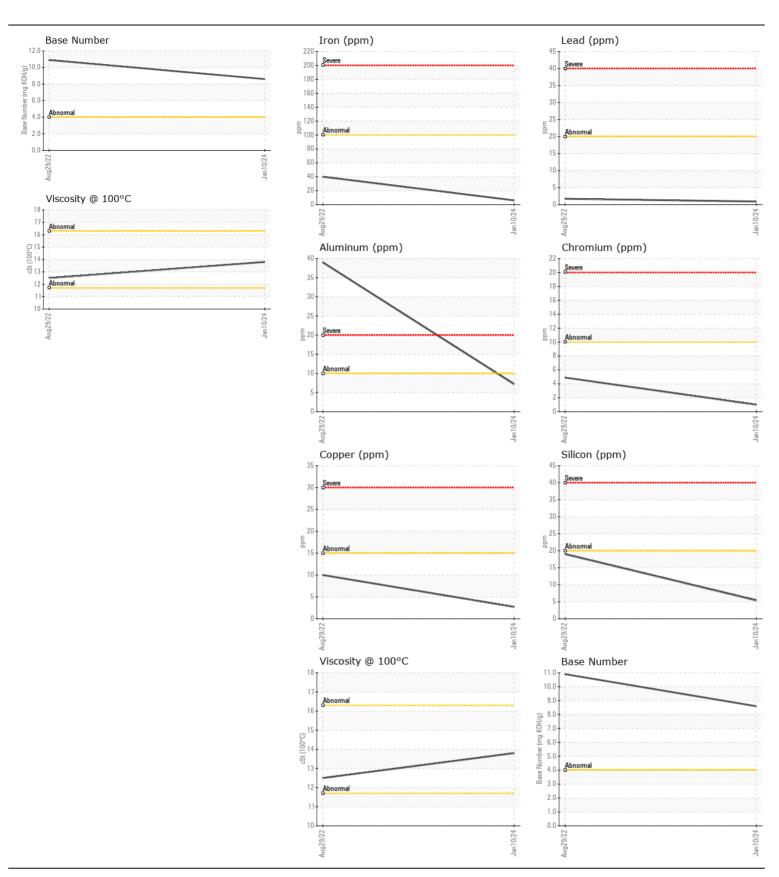
NORMAL NORMAL NORMAL

Area

Ascendum Machinery/500 Hour CSA Wachine Id VOLVO L70H 2169 (S/N 624365)

Component Diesel Engine

VOLVO VDS-4.5 Premium Motor Oil 15W40 (6 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ASC0001636	VCP0004252	
Resample at the next service interval to monitor.	Sample Date		Client Info		10 Jan 2024	29 Aug 2022	
	Machine Age	hrs	Client Info		512	512	
	Oil Age	hrs	Client Info		512	512	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	6	40	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>10	1	5	
	Nickel	ppm	ASTM D5185m	>10	2	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>2	<1	<1	
	Aluminum	ppm	ASTM D5185m	>10	7	△ 39	
	Lead	ppm	ASTM D5185m	>20	<1	2	
	Copper	ppm	ASTM D5185m	>15	3	10	
	Tin	ppm	ASTM D5185m	>10	<1	3	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTABINATION					_		
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	19	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	0	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.1	NEG	NEG	
	Glycol		WC Method	-	NEG	NEG	
	Soot %	%	*ASTM D7844		0.2	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.7	
	Sulfation	Abs/.1mm	*ASTM D7415		19.1	22.8	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	NORML	NORML	NORML	
		Scalai	*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	
	Boron	ppm	ASTM D5185m		21	63	
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	2	
	Molybdenum	ppm	ASTM D5185m		45	41	
	Manganese	ppm	ASTM D5185m		<1	5	
	Magnesium	ppm	ASTM D5185m		601	553	
	Calcium	ppm	ASTM D5185m		1389	1450	
	Phosphorus	ppm	ASTM D5185m		990	884	
	Zinc	ppm	ASTM D5185m		1235	1054	
	Sulfur	ppm	ASTM D5185m		3130	3177	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	19.6	
	Base Number (BN)				8.6	10.9	
	Visc @ 100°C	cSt	ASTM D445		13.8	12.5	
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Certificate L2367

Report Id: TRIBUR [WUSCAR] 06059105 (Generated: 01/12/2024 17:41:34) Rev: 1

Laboratory Sample No. Lab Number **Unique Number**

: ASC0001636 : 06059105 : 10830487

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 12 Jan 2024 Diagnosed : 12 Jan 2024

: Wes Davis Diagnostician

Test Package : MOBCE (Additional Tests: 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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