WEAR CONTAMINATION FLUID CONDITION

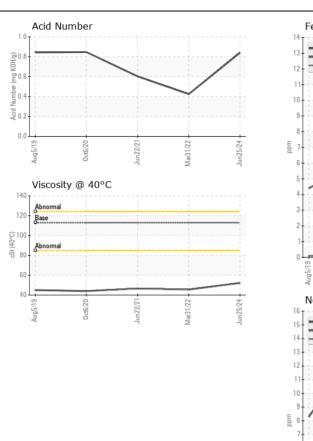
NORMAL ABNORMAL NORMAL

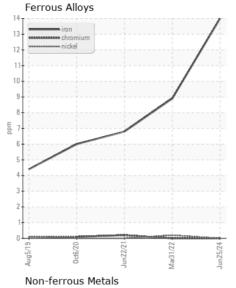
Machine Id

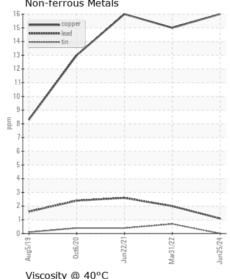
TAKEUCHI 410001658

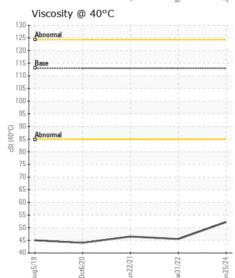
Hydraulic System

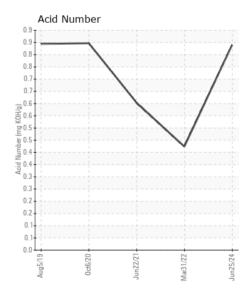
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VE		- /					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Sample Number		Client Info		VCP434813	,	VCP293279
	Sample Date		Client Info		25 Jun 2024	31 Mar 2022	22 Jun 2021
	Machine Age	hrs	Client Info		3950	2400	1850
	Oil Age	hrs	Client Info		0	500	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>20	14	9	7
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	<1
	Nickel	ppm	ASTM D5185m	>10	0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>10	2	2	<1
	Lead	ppm	ASTM D5185m	>10	1	2	3
	Copper	ppm	ASTM D5185m	>75	16	15	16
	Tin	ppm	ASTM D5185m	>10	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	6	4
	Potassium	ppm	ASTM D5185m	>20	1	0	<1
Moderate concentration of visible dirt/debris present in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4μm		ASTM D7647	>5000		<u>▲</u> 89226	4311
	Particles >6µm		ASTM D7647			<u>^</u> 21259	767
	Particles >14μm		ASTM D7647	>160		<u> </u>	58
	Particles >21μm		ASTM D7647			<u> </u>	15
	Particles >38μm		ASTM D7647			2	0
	Particles >71μm		ASTM D7647			0	0
	Oil Cleanliness		ISO 4406 (c)			<u>4</u> 24/22/17	19/17/13
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	▲ MODER	VLITE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<u> </u>	Emulsified Water	scalar	visuai	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	3	4
	Boron	ppm	ASTM D5185m	2.5	29	18	32
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0.7	19	14	19
	Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	256	165	49	60
	Calcium	ppm	ASTM D5185m	2057	2310	2690	3459
	Phosphorus	ppm	ASTM D5185m	935	621	471	576
	Zinc	ppm	ASTM D5185m		743	623	735
	Sulfur	ppm	ASTM D5185m	4079	5148	4703	6555
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.84	0.424	0.603
	Visc @ 40°C	cSt	ASTM D445		52.2	45.5	46.5













Certificate L2367

Laboratory Sample No.

Test Package : MOB 2

: VCP434813 Lab Number : 06230104 Unique Number : 11113597

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Jul 2024 **Tested**

Diagnosed

: 09 Jul 2024

: 09 Jul 2024 - Don Baldridge

Contact: LARRY SCHRADE larry.schrade@sdevelop.com T: (810)499-1953

LEONARDS CONTRACTING

30850 STEPHENSON HWY

MADISON HEIGHTS, MI

F: x:

US 48071

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)