WEAR CONTAMINATION FLUID CONDITION

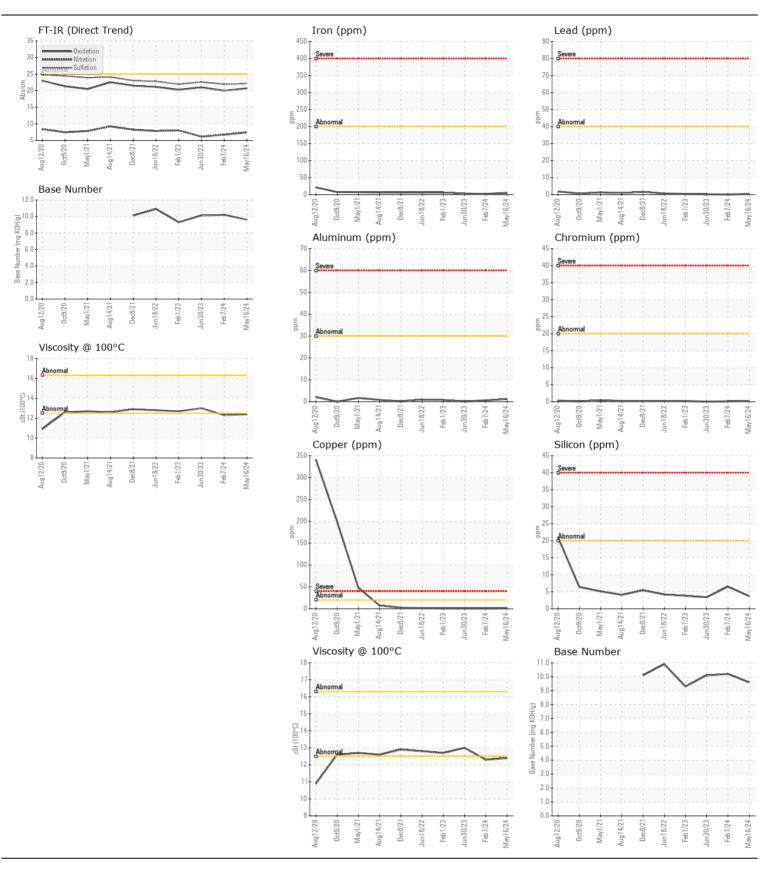
NORMAL NORMAL

Area

SWA560078-10]
WOLVO L180H 5412
Component



VOLVO VDS-4.5 Premium Mo	tor OII 15W40		3AL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP430320	VCP442816	VCP423025
	Sample Date		Client Info		16 May 2024	07 Feb 2024	30 Jun 2023
	Machine Age	hrs	Client Info		9182	7046	5936
	Oil Age	hrs	Client Info		500	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	N/A	N/A
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>200	5	2	3
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	0
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>30	1	<1	<1
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>20	1	<1	<1
	Tin	ppm	ASTM D5185m	>20	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	6	3
	Potassium	ppm	ASTM D5185m	>20	2	0	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0	0.8	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.7	6.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	21.9	22.6
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	3
	Boron	ppm	ASTM D5185m		60	54	56
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	<1
	Molybdenum	ppm	ASTM D5185m		40	39	38
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		540	504	492
			AOTA DEADE		1661	1635	1757
	Calcium	ppm	ASTM D5185m		1001	1000	1757
	•	ppm ppm	ASTM D5185m		998	962	920
	Calcium	• •					
	Calcium Phosphorus	ppm	ASTM D5185m		998	962	920
	Calcium Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	>25	998 1106	962 1097	920 1137
	Calcium Phosphorus Zinc Sulfur	ppm ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7414	>25	998 1106 3506	962 1097 2752	920 1137 3401





Certificate L2367

Lab Number

Laboratory Sample No.

Unique Number : 11048163

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP430320 : 06191411

Received **Tested** 

: 24 May 2024 : 29 May 2024 Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

: 29 May 2024 - Wes Davis

CALLANAN RT 32 677 FLATBUSH RD EAST KINGSTON, NY US 12401

Contact:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Contact/Location: ? ? - CALEAS

T: F: