WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

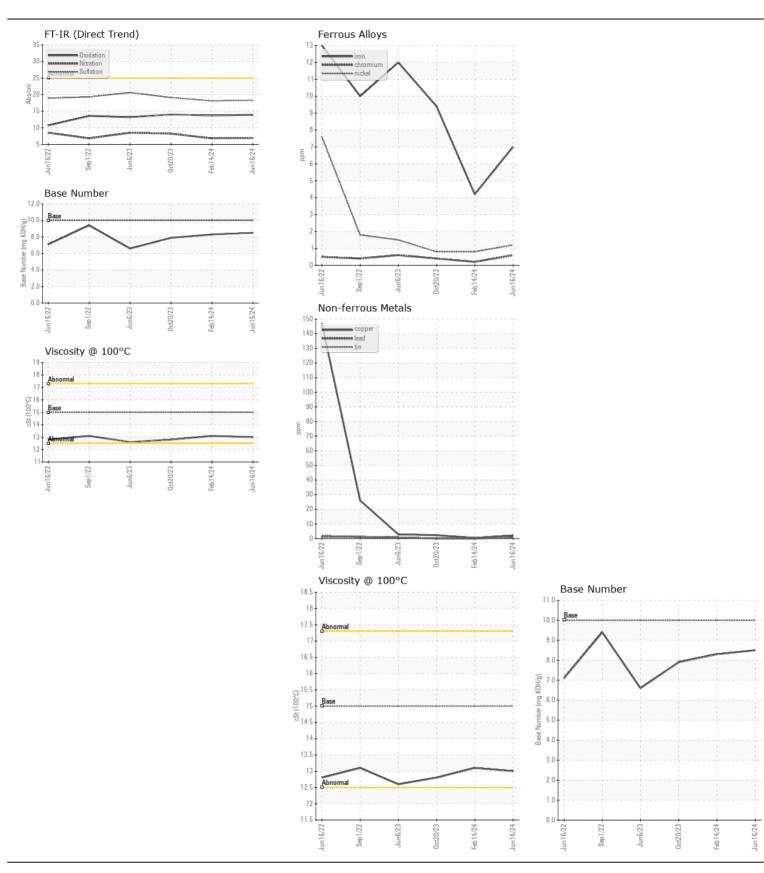


Machine Id VOLVO A45GFS 352471

Diesel Engine

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

			S-3 (G	 /			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0011092	ASC0008690	VCP441602
	Sample Date		Client Info		16 Jun 2024	14 Feb 2024	20 Oct 2023
	Machine Age	hrs	Client Info		5030	4476	3990
	Oil Age	hrs	Client Info		530	486	0
	Filter Age	hrs	Client Info		530	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	7	4	9
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	3	3
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>330	2	<1	2
	Tin	ppm	ASTM D5185m	>15	<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	>25	4	3	3
	Potassium	ppm	ASTM D5185m	>20	1	1	0
There is no indication of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.3	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.8	8.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	18.1	19.1
	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	<1	1
	Boron	ppm	ASTM D5185m	2.5	2	4	1
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		<1	0	0
	Molybdenum	ppm	ASTM D5185m		62	58	57
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	256	920	895	925
	Calcium	ppm	ASTM D5185m	2057	1058	1048	1165
	Phosphorus	ppm	ASTM D5185m	935	975	1026	968
	Zinc	ppm	ASTM D5185m	1223	1208	1225	1299
	Sulfur	ppm	ASTM D5185m		3162	3017	3172
	Oxidation	Abs/.1mm	*ASTM D7414		13.9	13.7	14.0
	Base Number (BN)				8.5	8.3	7.9
	Dasc Hamber (DIA)						







Certificate L2367

Laboratory Sample No.

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

: ASC0011092 Lab Number : 06213120 Unique Number : 11085984

Test Package : CONST (Additional Tests: TBN)

Received

Diagnosed

Tested

: 18 Jun 2024

: 19 Jun 2024

: 20 Jun 2024 - Don Baldridge

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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