WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



VOLVO A45G 752180

Diesel Engine

Fluid Fluid Fluid Fluid							
NOT GIVEN (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter sharps at the time of complian has been noted. Because I	Sample Number		Client Info		ASC0008660	VCP430733	
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		03 Jun 2024	15 Feb 2024	
	Machine Age	hrs	Client Info		2216	585	
	Oil Age	hrs	Client Info		1631	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	27	27	
WLAIT	Chromium	ppm	ASTM D5185m		1	<1	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		3	3	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>2	0	<1	
	Aluminum	ppm	ASTM D5185m	>25	4	3	
	Lead	ppm	ASTM D5185m	>40	<1	<1	
	Copper	ppm	ASTM D5185m	>330	45	261	
	Tin	ppm	ASTM D5185m	>15	2	6	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 25	6	25	
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	2	
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		<1.0	0.7	
	Water	70	WC Method		NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	1	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.2	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	19.9	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	4	
TEOID CONDITION	Boron	ppm	ASTM D5185m		4	31	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		61	83	
	Manganese	ppm	ASTM D5185m		1	2	
	Magnesium	ppm	ASTM D5185m		913	22	
	Calcium	ppm	ASTM D5185m		1131	2022	
	Phosphorus	ppm	ASTM D5185m		907	942	
	Zinc	ppm	ASTM D5185m		1203	1128	
	Sulfur	ppm	ASTM D5185m		2856	3150	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	15.0	
	Dana Mussalaas (DM)	man 1/011/m	ACTM DOOCC			Γ 0	

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445

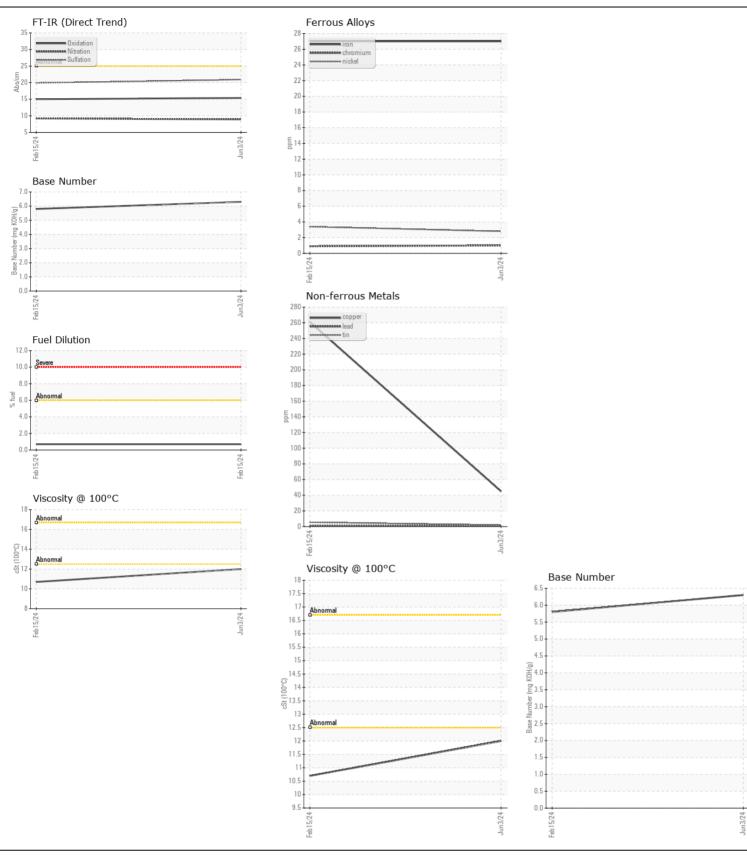
Visc @ 100°C cSt

5.8

10.7

6.3

12.0







Certificate L2367

Laboratory Sample No.

Lab Number : 06212746 Unique Number : 11085610

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0008660

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Received : 17 Jun 2024 **Tested** : 19 Jun 2024 Diagnosed

: 19 Jun 2024 - Angela Borella

117 - ASCENDUM MACHINERY INC - GREENVILLE

2002 N GREENE ST GREENVILLE, NC US 27834

Contact: ALLEN WILLIAMS allen.williams@ascendummachinery.com T:

Submitted By: Service - Brandon Lewis

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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