

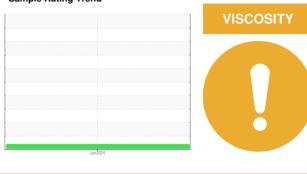
OIL ANALYSIS REPORT

Sample Rating Trend



Area **RESIN PLANT** FIRE PUMP (S/N 86-65638) Pump

Fluid VOLVO VDS-4.5 Premium Motor Oil 15W40 (5 GAL)



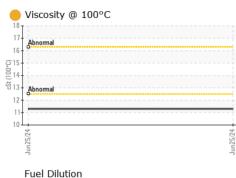
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0943765		
No corrective action is recommended at this time.	Sample Date		Client Info		25 Jun 2024		
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		0		
Wear	Oil Age	hrs	Client Info		0		
All component wear rates are normal.	Oil Changed		Client Info		N/A		
Contamination	Sample Status				ATTENTION		
Fuel content negligible. There is no indication of any contamination in the oil. The amount and size	CONTAMINATIO	N	method	limit/base	current	history1	history2
of particulates present in the system are acceptable.	Water		WC Method		NEG		
Fluid Condition	WEAR METALS		method	limit/base	current	history1	history2
The oil viscosity is lower than normal. The BN result	PQ		ASTM D8184		16		
ndicates that there is suitable alkalinity remaining in	Iron	ppm	ASTM D5185m	>90	0		
he oil. Confirm oil type.	Chromium	ppm	ASTM D5185m	>5	<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m	>3	0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>7	2		
	Lead	ppm	ASTM D5185m	>12	0		
	Copper	ppm	ASTM D5185m	>30	0		
	Tin	ppm	ASTM D5185m	>9	0		
	Vanadium	ppm	ASTM D5185m		0		
	Cadmium	ppm	ASTM D5185m		0		
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		66		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		40		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		480		
	-	PP'''					
	Calcium	nnm	ASTM D5185m				
	Calcium	ppm ppm	ASTM D5185m ASTM D5185m		1561		
	Phosphorus	ppm	ASTM D5185m		1561 821		
					1561		
	Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base	1561 821 1106 2802		
	Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		1561 821 1106 2802		
	Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method		1561 821 1106 2802 current	 history1	 history2
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>60	1561 821 1106 2802 current 3	 history1	 history2
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>60	1561 821 1106 2802 <u>current</u> 3 1	 history1 	 history2
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm S ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>60	1561 821 1106 2802 <u>current</u> 3 1 2 1.0	 history1 	 history2
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm S ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method	>60 >20	1561 821 1106 2802 current 3 1 2 1.0 current	 history1 history1	 history2 history2
	Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm S ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>60 >20	1561 821 1106 2802 <u>current</u> 3 1 2 1.0	 history1 	 history2

Contamination Fuel content negligible. There

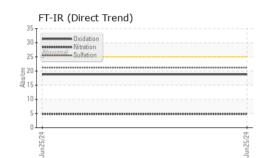
Fluid Condition

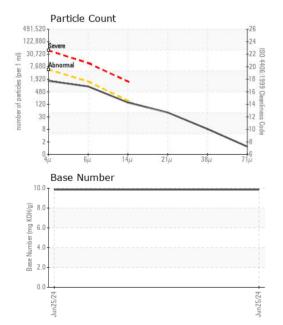


OIL ANALYSIS REPORT









Bottom

FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1392		
Particles >6µm		ASTM D7647	>1300	758		
Particles >14µm		ASTM D7647	>160	129		
Particles >21µm		ASTM D7647	>40	43		
Particles >38µm		ASTM D7647	>10	7		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/17/14		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		18.8		
Base Number (BN)	mg KOH/g	ASTM D2896		9.86		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>.1	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		<mark> </mark> 11.3		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color				no image	no image	no image

no image

no image

no image



	à	Laboratory	: WearCheck USA	- 501 Madison Ave.,	Cary, NC 27513	BAKELITE CHEM	ICALS - BEAVER CREEK
물ㅣ		Sample No.	: WC0943765	Received	: 26 Jun 2024		4113 W 4 MILE RD
	ACCREDITED	Lab Number	: 06221412	Tested	: 01 Jul 2024		GRAYLING, MI
8 I	TESTING LABORATORY	Unique Number	: 11099609	Diagnosed	: 01 Jul 2024 - Jonathan H	lester	US 49738
6	Certificate L2367	Test Package	: PLANT (Addition	al Tests: FT-IR, FUE	LDILUTION, KV100, F	PercentFuel, TBN)	Contact: Nick Swiercz
£	To discuss this	s sample report,	contact Customer	Service at 1-800-237-	1369.	nick.	swiercz@bakelite.com
Certificate L2367 Test Package : PLANT (Additional Tests: FT-IR, FUELDILUTION, KV100, PercentFuel, TBN) Control discuss this sample report, contact Customer Service at 1-800-237-1369. nick.swie * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. intervented : 26 Juli 2024							T:
	Statements of	conformity to sp	pecifications are bas	sed on the simple acc	eptance decision rule	(JCGM 106:2012)	F:
			4 4 4 57 50) David				

Contact/Location: Nick Swiercz - GEOGRA Page 2 of 2