

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

# Area [1790] VIN 5390 Component Diesel Engine Fluid {not provided} (--- GAL)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

## Wear

All component wear rates are normal.

### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

#### Fluid Condition

Viscosity of sample indicates oil is within SAE 10W30 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0711547		
Sample Date		Client Info		24 Jun 2024		
Machine Age	kms	Client Info		0		
Oil Age	kms	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIO	۷	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
-		and the state	11.0011/000000		In the term of	h is to m O
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	22		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>4	1		
Titanium	ppm	ASTM D5185(m)	0	<1		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	4		
Lead	ppm	ASTM D5185(m)	>40	0		
Copper	ppm	ASTM D5185(m)	>330	<1		
Tin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		28		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		10		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		722		
Calcium	ppm	ASTM D5185(m)		1307		
Phosphorus	ppm	ASTM D5185(m)		679		
Zinc	ppm	ASTM D5185(m)		785		
Sulfur	ppm	ASTM D5185(m)		2596		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7		
Sodium	ppm	ASTM D5185(m)		5		
Potassium	ppm	ASTM D5185(m)	>20	2		
Fuel	%	ASTM D7593*	>5	0.2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1		
Nitration	Abs/cm	ASTM D7624*	>20	9.9		
Sulfation	Abs/.1mm	ASTM D7024 ASTM D7415*	>30	23.2		
Guildion	nuga/.111111	101WD1410	200	20.2		



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Fuel Dilution			FLUID DEGRADA	TION	method	limit/base	
Severe			Oxidation	Abs/.1mm	ASTM D7414*	>25	1
Abnormal			VISUAL		method	limit/base	
			White Metal	scalar	Visual*	NONE	١
			Yellow Metal	scalar	Visual*	NONE	1
1			Precipitate	scalar	Visual*	NONE	
24		24	Silt	scalar	Visual*	NONE	
Jun24/24		Jun24/24	Debris	scalar	Visual*	NONE	
JL .		Ju	Sand/Dirt	scalar	Visual*	NONE	
FT-IR (Direct Ti	rend)					NORML	
Oxidation			Appearance	scalar	Visual*		
• ••••••••••••••••••••••••••••••••••••			Odor	scalar	Visual*	NORML	
Abronnal Sulfation			Emulsified Water	scalar	Visual*	>0.2	
			Free Water	scalar	Visual*		
			FLUID PROPERT	IES	method	limit/base	
	*****		Visc @ 40°C	cSt	ASTM D7279(m)		
24		- 24	Visc @ 100°C	cSt	ASTM D7279(m)		
Jun24/24		Jun24/24	Viscosity Index (VI)	Scale	ASTM D2270*		
Viscosity @ 40°			GRAPHS				
Abnormal			Iron (ppm)			10	Le
			300 200 Severe				00 S
			E L			udd	50 - A
			abnormal			a	50 - 4
			0			+	0
Abnormal			-			24/24	
			o			Jun24/24	Jun24/24
Abnormal		24,24	Aluminum (ppm)				<b>D</b> Jun24/24
		Jun24/24	Aluminum (ppm)				0 D Jun24/24
Jun24/24	2°C	Jun24/24	Aluminum (ppm)				0 D Jun24/24
Abnormal	2°C	- +2/+24	Aluminum (ppm)			ud ud	40 40 100 24/24
Abnormal HZHZUNG Viscosity @ 40 <sup>4</sup>	°C	Jun24,24	Aluminum (ppm)			ud ud	40
Abnormal	°C	Jun24/24	Aluminum (ppm)			ud	60 L S S S S S S S S S S S S S S S S S S
Abnormal	°C	Jun24/24	Aluminum (ppm)			ud	60 L S S S S S S S S S S S S S S S S S S
Abnormal P2Hr2un Viscosity @ 40°	°C	- Jun24/24	Aluminum (ppm)			ud ud	Jun24/24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Abnormal Viscosity @ 40°	2°C	- Jun24/24	Aluminum (ppm)			Jun24/24	C Jun24/24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Abnormal P2Hr2un Viscosity @ 40°	2°C	Jun24/24	Aluminum (ppm)			Jun24/24	S Jun24/24
Abnormal Viscosity @ 40°	2C	Jun24/24	Aluminum (ppm)			Jun2424	+2/h2unr C
Abnormal Viscosity @ 40°	2°C	Jun24,24 -	Aluminum (ppm)			Jun2424	00 00 00 00 00 00 00 00 00 00
Viscosity @ 40°	°C	Jun24,24	Aluminum (ppm)			mq mq	+Z/+Zunn C
Viscosity @ 40 <sup>4</sup>	<sup>2</sup> C	Jun24/24	Aluminum (ppm)			mq mq	+2/+2/m C
Viscosity @ 40 <sup>4</sup>	°C	Jun24/24 -	Aluminum (ppm)			Jun2424	42/42/un C
Viscosity @ 40 <sup>4</sup>	°C	Jun24/24 +	Aluminum (ppm)			Jun24/24 ppm	+2/+2/mn C + + + + + - + + + + + + + + + + + + + + + + + +
Viscosity @ 40°	°C	- 20124(24)	Aluminum (ppm)			Jun24/24 ppm	+ZthZumr C + ZthZumr S + zthZumr S + zthZumr
Abnormal Viscosity @ 40°	°C	- 21/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2	Aluminum (ppm)			Jun24/24 Jun24/24 ppm	10.1
Abnormal Viscosity @ 40°	PC	Jun24/24	Aluminum (ppm)			Jun24/24 Jun24/24 ppm	S 200 100 100 100 100 100 100 100 100 100
Abnormal Viscosity @ 40°	PC	Jun24/24	Aluminum (ppm)			Soot **	Bit Hold
Abnormal Viscosity @ 40°	PC	Jun24/24	Aluminum (ppm)			2 Soot % 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	+72+72unr C + 72+72unr C
Abnormal Viscosity @ 40°	PC	Jun24/24	Aluminum (ppm)			2 Soot % 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	+27+2unf C + + - + - + - + - +
Abnormal Viscosity @ 40°	°C	Jun24(24)	Aluminum (ppm)			Soot **	+2452unf C
Abnormal Viscosity @ 40°		Lu-3ADA	Aluminum (ppm)			Jun24/24 Jun24	+2747unr C
Abnormal Viscosity @ 40°		Laboratory	Aluminum (ppm) 40 40 40 40 40 40 40 40 40 40	5 Appleby		to state with the state of the	+72+72unr C
Viscosity @ 40 <sup>4</sup>		Lu-3ADA	Aluminum (ppm)		ved : 02	Jun24/24 Jun24	+2747unr C

Lead (ppm) Severe Chromium (ppm) Silicon (ppm) Severe Soot % Severe Abnorm Jun24/24

VLITE NONE NONE NONE NONE NONE NORML NORML NEG NEG

PREVOST CAR 5H9 7655 TRANMERE DRIVE MISSISSAUGA, ON CA L5S 1L4 Marson el, VI, Visual) Contact: Tony Albino To discuss this sample report, contact Customer Service at 1-800-268-2131. tony.albino@volvo.con Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: Validity of results and interpretation are based on the sample and information as supplied. F:

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