

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



AMR-Walnut St 438154 VOLVO L180H 04797

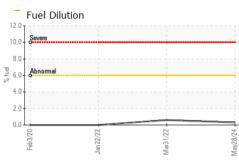
Component Diesel Engine Fluid CHEVRON 15W40 (12 GAL)

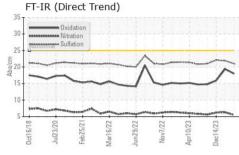
Area

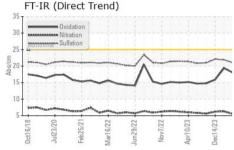
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation Oil and filter change at the time of sampling has been noted. Resample at the next service interval	Sample Number		Client Info		DJJ0021075	DJJ0021073	DJJ0021069
	Sample Date		Client Info		28 May 2024	20 Feb 2024	14 Dec 2023
	Machine Age	hrs	Client Info		13086	12524	12141
monitor.	Oil Age	hrs	Client Info		0	0	250
lear	Oil Changed		Client Info		Changed	Changed	Changed
Il component wear rates are normal.	Sample Status				ATTENTION	NORMAL	NORMAL
ontamination uel content negligible. There is no indication of	CONTAMINATIO	N	method	limit/base		history1	history
ny contamination in the oil.	Water		WC Method	>0.2	NEG	NEG	NEG
Fluid Condition The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Glycol		WC Method		NEG	NEG	NEG
	WEAR METALS		method	limit/base	current	history1	history
	Iron	ppm	ASTM D5185m		3	1	2
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>30	2	<1	2
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>20	<1	0	0
	Tin	ppm	ASTM D5185m	>20	<1	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history
	Boron	ppm	ASTM D5185m		90	89	372
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		44	46	119
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		468	505	586
	Calcium	ppm	ASTM D5185m		1469	1517	1450
	Phosphorus	ppm	ASTM D5185m		886	878	735
	Zinc	ppm	ASTM D5185m		1019	1015	881
	Sulfur	ppm	ASTM D5185m		2967	2543	2841
	CONTAMINANT	S	method	limit/base	current	history1	history
	Silicon	ppm	ASTM D5185m	>20	4	3	5
	Sodium	ppm	ASTM D5185m	>50	0	1	0
	Potassium	ppm	ASTM D5185m		1	<1	2
	Fuel	%	ASTM D3524	>6.0	0.3	<1.0	<1.0
			method	limit/base	current	history1	history
	INFRA-RED						
	INFRA-RED Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
		% Abs/cm				0.1 6.3	0.1 6.2
	Soot %		*ASTM D7844 *ASTM D7624	>20	0.1 5.5 21.0		
	Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624	>20	5.5 21.0	6.3	6.2 22.1
	Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	5.5 21.0	6.3 21.9	6.2

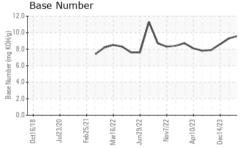


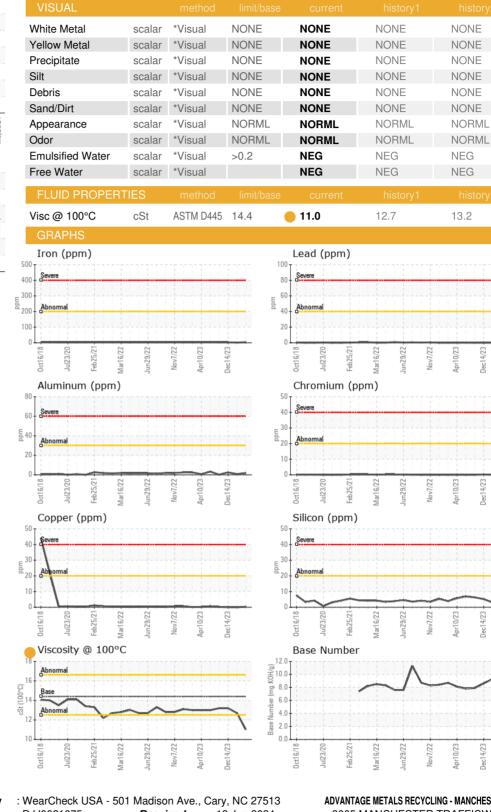
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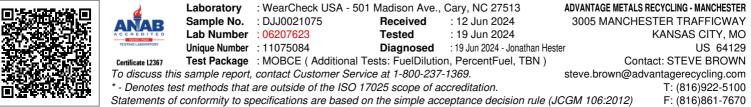












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