

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



{UNASSIGNED} 814041

Component 1 Diesel Engine

DIESEL ENGINE OIL SAE 5W30 (12 GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0118170	GFL0109130	GFL0109217
Resample at the next service interval to monitor.	Sample Date		Client Info		08 Apr 2024	13 Mar 2024	28 Jan 2024
Wear	Machine Age	hrs	Client Info		758	609	302
All component wear rates are normal.	Oil Age	hrs	Client Info		149	600	302
Contamination	Oil Changed		Client Info		N/A	Changed	Not Changd
There is no indication of any contamination in the	Sample Status				ATTENTION	NORMAL	NORMAL
oil.	CONTAMINAT	TION	method	limit/base	current	history1	history2
Fluid Condition The oil viscosity is higher than normal. The BN regult indicates that there is guitable alkalinity.	Fuel		WC Method		<1.0	<1.0	0.4
	Water		WC Method		NEG	NEG	NEG
result indicates that there is suitable alkalinity remaining in the oil.	Glycol		WC Method	20.L	NEG	NEG	NEG
	WEAR METAL	9	method	limit/base		history1	history2
	Iron	ppm	ASTM D5185m		4	41	31
	Chromium	ppm	ASTM D5185m		0	<1	1
	Nickel	ppm	ASTM D5185m		<1 0	13	10
	Titanium Silver	ppm	ASTM D5185m ASTM D5185m		0	0	<1 0
	Aluminum	ppm	ASTM D5185m		2	5	6
	Lead	ppm	ASTM D5185m		2 <1	2	
		ppm	ASTM D5185m		0	276	<1 41
	Copper Tin	ppm	ASTM D5185m		۰ <1	1	2
	Vanadium	ppm ppm	ASTM D5185m	>15	0	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES	ррп		limit/bass			
			method	limit/base		history1	history2
	Boron	ppm	ASTM D5185m		2	200	359
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	59	117	125
	Manganese	ppm	ASTM D5185m	450	0	4	4
	Magnesium	ppm	ASTM D5185m	450	1001	748	687
	Calcium	ppm	ASTM D5185m		1117	1515	1434
	Phosphorus Zinc	ppm		1150	1102	761 903	694 837
	Sulfur	ppm	ASTM D5185m ASTM D5185m	4250	1353 3804	2731	2394
		ppm					
	CONTAMINAN			limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	70	70
	Sodium	ppm	ASTM D5185m	00	4	3	4
	Potassium	ppm	ASTM D5185m	>20	2	4	7
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.3	0.5	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	10.1	8.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	24.4	25.7
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	22.7	21.8
	B M		107112000	0 =			0.1

Base Number (BN) mg KOH/g ASTM D2896 8.5

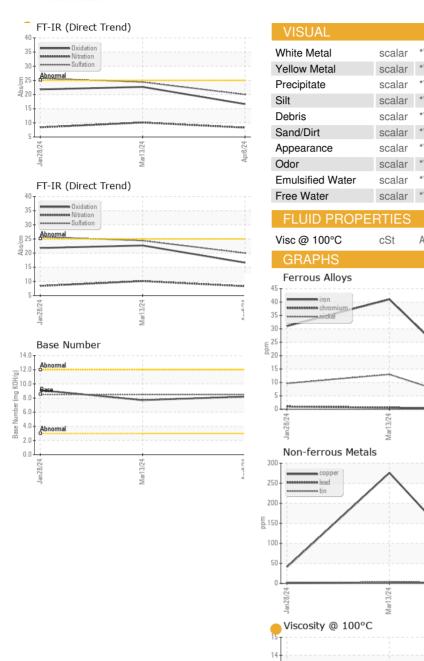
7.7

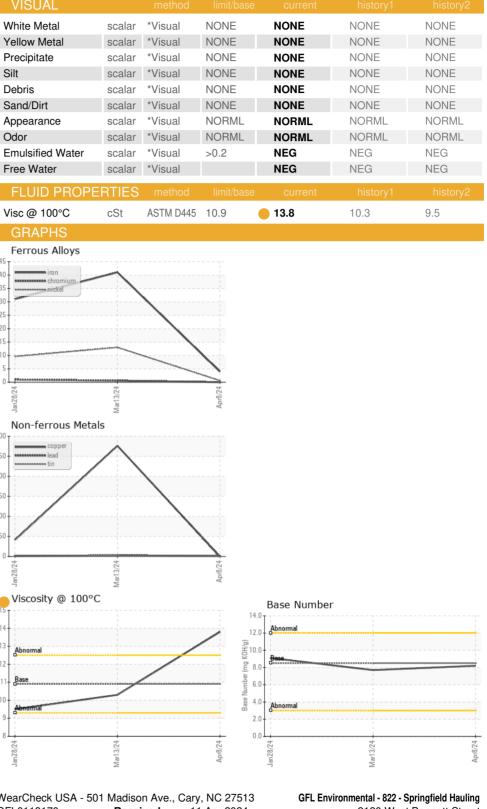
9.1

8.2



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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : GFL0118170 Received : 11 Apr 2024 2120 West Bennett Street Lab Number : 06146333 Tested Springfield, MO : 12 Apr 2024 Unique Number : 10976411 Diagnosed : 15 Apr 2024 - Don Baldridge US 65807 Test Package : FLEET Contact: Dennis Moore Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dennis.moore@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (417)403-3641 E:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Report Id: GFL822 [WUSCAR] 06146333 (Generated: 04/15/2024 15:41:52) Rev: 1

Submitted By: Dennis Moore

Page 2 of 2