

OIL ANALYSIS REPORT



Machine Id

22309 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

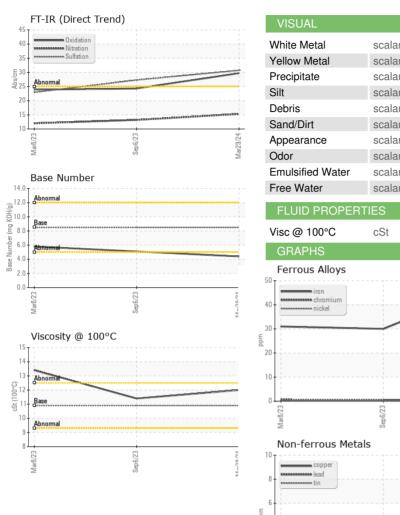
Fluid Condition

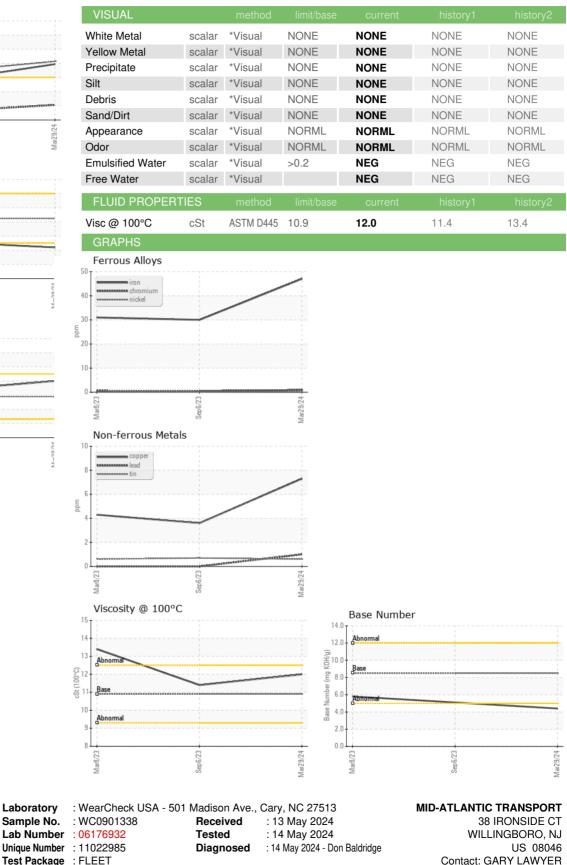
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0901338	WC0832043	WC0784058
Sample Date		Client Info		29 Mar 2024	06 Sep 2023	08 Mar 2023
Machine Age	mls	Client Info		231646	170760	111336
Oil Age	mls	Client Info		50000	50000	50000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	47	30	31
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	11	8	13
Lead	ppm	ASTM D5185m	>40	1	0	0
Copper	ppm	ASTM D5185m	>330	7	4	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	2	6	16
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	74	72	47
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	450	983	1028	671
Calcium	ppm	ASTM D5185m	3000	1512	1397	1728
Phosphorus	ppm	ASTM D5185m	1150	4455		
Zinc				1155	1180	873
	ppm	ASTM D5185m	1350	1155	1180 1503	873 1056
Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1350 4250			
	ppm			1372	1503	1056
Sulfur	ppm	ASTM D5185m	4250 limit/base	1372 3653	1503 3337 history1 17	1056 3258
Sulfur CONTAMINANTS	ppm	ASTM D5185m method	4250 limit/base	1372 3653 current	1503 3337 history1	1056 3258 history2
Sulfur CONTAMINANTS Silicon	ppm ppm	ASTM D5185m method ASTM D5185m	4250 limit/base >25	1372 3653 current 20	1503 3337 history1 17	1056 3258 history2 13
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	4250 limit/base >25	1372 3653 current 20 4	1503 3337 history1 17 2	1056 3258 history2 13 4
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	4250 limit/base >25 >20	1372 3653 current 20 4 14	1503 3337 history1 17 2 13	1056 3258 history2 13 4 25
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	4250 limit/base >25 >20 limit/base >3	1372 3653 current 20 4 14 current	1503 3337 history1 17 2 13 history1	1056 3258 history2 13 4 25 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	4250 limit/base >25 >20 limit/base >3	1372 3653 current 20 4 14 current 0.8	1503 3337 history1 17 2 13 history1 0.5	1056 3258 history2 13 4 25 history2 0.5
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624	4250 imit/base >25 >20 imit/base >3 >20	1372 3653 current 20 4 14 14 current 0.8 15.3	1503 3337 history1 17 2 13 history1 0.5 13.2	1056 3258 history2 13 4 25 history2 0.5 12.0
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	4250 limit/base >25 >20 limit/base >3 >20 >30	1372 3653 current 20 4 14 0.8 15.3 30.7	1503 3337 history1 17 2 13 history1 0.5 13.2 27.3	1056 3258 history2 13 4 25 history2 0.5 12.0 22.9



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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)

Certificate 12367

Laboratory

Sample No.

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