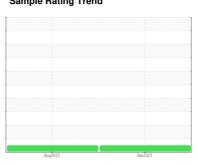


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 98048 353

Component **Gasoline Engine**

MOTORCRAFT SUPER PREMIUM SAE 5W3

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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

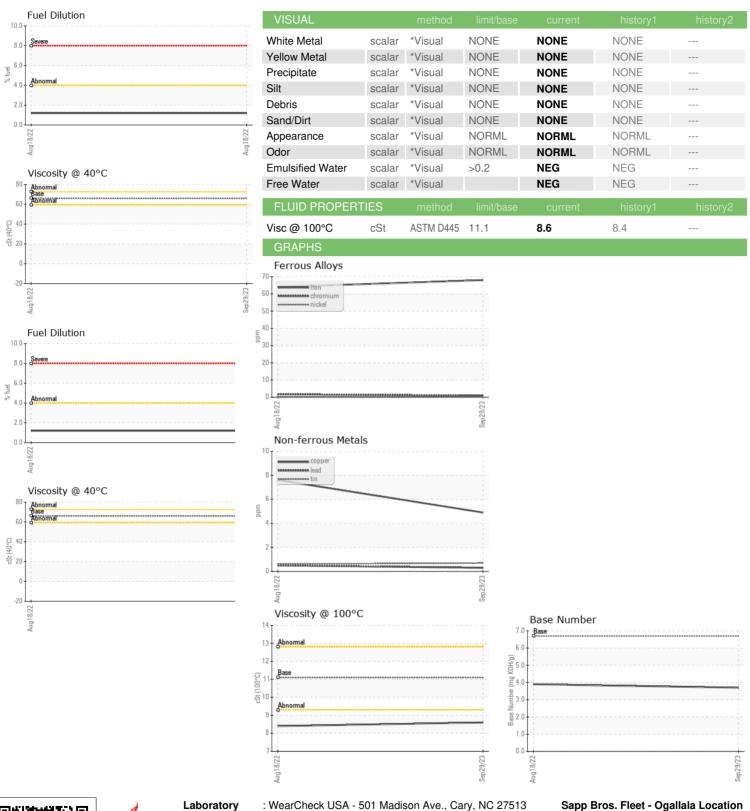
Fluid Condition

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

SAMPLE INFORM			Aug2022	Sep2023		
	MATION	method	limit/base		history1	history2
Sample Number	717 (11101)	Client Info	mmbasc	SBP0005518	SBP0001663	
		Client Info		29 Sep 2023		
Sample Date Machine Age	mls	Client Info		46303	18 Aug 2022 37955	
Oil Age	mls	Client Info		8348	8645	
Oil Changed	11113	Client Info		Changed	Changed	
Sample Status		Ciletit IIIIO		NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>150	68	64	
Chromium	ppm	ASTM D5185m		<1	2	
Vickel	ppm	ASTM D5185m	>5	<1	<1	
Titanium	ppm	ASTM D5185m	75	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m		4	6	
Lead	ppm	ASTM D5185m	>50	<1	<1	
Copper	ppm	ASTM D5185m		5	8	
Soppei Tin			>100	<1	<1	
≀iii Vanadium	ppm	ASTM D5185m	>10	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
	ppm			-		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		41	11	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		70	64	
Manganese	ppm	ASTM D5185m		2	4	
Magnesium	ppm	ASTM D5185m		540		
<u> </u>					460	
Calcium	ppm	ASTM D5185m		977	1051	
Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m		977 718	1051 637	
Calcium Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		977 718 830	1051 637 738	
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m		977 718	1051 637	
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	977 718 830	1051 637 738	
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >30	977 718 830 2802	1051 637 738 2464	
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		977 718 830 2802 current	1051 637 738 2464 history1	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>30	977 718 830 2802 current	1051 637 738 2464 history1	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>30 >400	977 718 830 2802 current 11 6	1051 637 738 2464 history1 8	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	>30 >400 >20	977 718 830 2802 current 11 6 4	1051 637 738 2464 history1 8 6	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30 >400 >20 >4.0	977 718 830 2802 current 11 6 4 <1.0	1051 637 738 2464 history1 8 6 3 1.2	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m METHOD ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	>30 >400 >20 >4.0 limit/base	977 718 830 2802 current 11 6 4 <1.0 current	1051 637 738 2464 history1 8 6 3 1.2	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm s ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>30 >400 >20 >4.0 limit/base	977 718 830 2802 current 11 6 4 <1.0 current	1051 637 738 2464 history1 8 6 3 1.2 history1	history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm % Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844	>30 >400 >20 >4.0 limit/base	977 718 830 2802 current 11 6 4 <1.0 current 0 9.5	1051 637 738 2464 history1 8 6 3 1.2 history1 0.1 13.9	history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm % Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D76145	>30 >400 >20 >4.0 limit/base >20 >30	977 718 830 2802 current 11 6 4 <1.0 current 0 9.5 21.7	1051 637 738 2464 history1 8 6 3 1.2 history1 0.1 13.9 27.6	history2 history2 history2



OIL ANALYSIS REPORT





Laboratory Sample No. Lab Number **Unique Number**

: SBP0005518 : 06006250

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Nov 2023

Diagnosed : 14 Nov 2023 Diagnostician : Doug Bogart

US Contact: Service Manager

: 10740012 Test Package : FLEET (Additional Tests: FuelDilution, KV40) Certificate L2367 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)

T: F: