

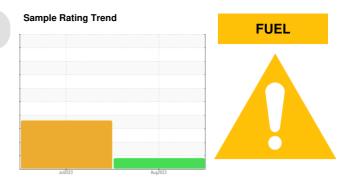
PROBLEM SUMMARY

NOT IN UNIT LIST/Tire Warehouse 91910

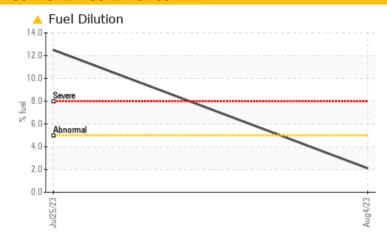
Component

1 Diesel Engine

NOT GIVEN (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS											
Sample Status				MARGINAL	SEVERE						
Fuel	%	ASTM D3524	>5	<u>^</u> 2.1	12.5						

Customer Id: SBTOMA
Sample No.: SBP0004650
Lab Number: 05926605
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

Action Status Date Done By Description Change Fluid --- ? Oil and filter change at the time of sampling has been noted. Change Filter --- ? Oil and filter change at the time of sampling has been noted. Information Required --- ? Please specify the brand, type, and viscosity of the oil on your next sample.

HISTORICAL DIAGNOSIS

25 Jul 2023 Diag: Jonathan Hester

FUEL



We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN level is low.



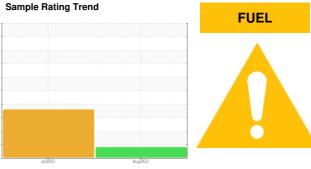


OIL ANALYSIS REPORT

NOT IN UNIT LIST/Tire Warehouse 91910

Component 1 Diesel Engine

NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. 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.

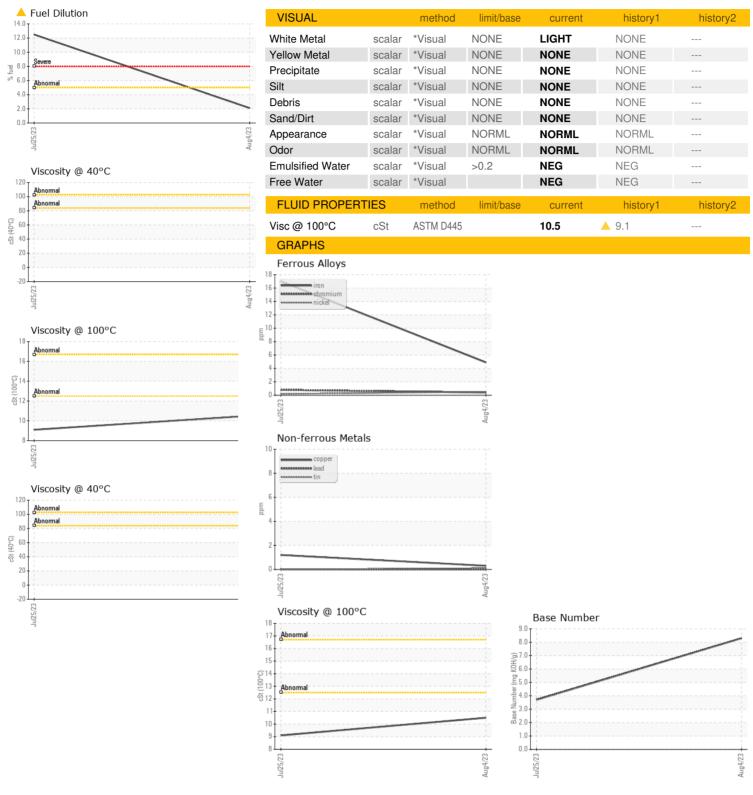
Fluid Condition

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

			Jul2023	Aug2023		
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0004650	SBP0003627	
Sample Date		Client Info		04 Aug 2023	25 Jul 2023	
Machine Age	mls	Client Info		164255	163164	
Oil Age	mls	Client Info		164255	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				MARGINAL	SEVERE	
CONTAMINATION		method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	5	17	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	1	3	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	<1	1	
Tin	ppm	ASTM D5185m	>15	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	2	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		54	50	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		838	772	
Calcium	ppm	ASTM D5185m		993	936	
Phosphorus	ppm	ASTM D5185m		938	828	
Zinc	ppm	ASTM D5185m		1105	1007	
Sulfur	ppm	ASTM D5185m		3113	2745	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	9	
Sodium	ppm	ASTM D5185m		<1	2	
Potassium	ppm	ASTM D5185m	>20	<1	1	
Fuel	%	ASTM D3524	>5	<u> </u>	12.5	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	6.1	11.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	31.0	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Outdetter						
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	41.9	
Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25	19.7 8.3	41.9 A 3.7	



OIL ANALYSIS REPORT





Laboratory Sample No. Lab Number

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0004650 : 05926605 : 10606552

Received Diagnosed

Diagnostician : Jonathan Hester **Test Package**: FLEET (Additional Tests: KV40, PercentFuel) 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.

Sapp Bros. Fleet - Omaha Petroleum Location

9915 South 148th OMAHA, NE US 68138 Contact: Stephanie Kelly

skelly@sappbros.net T: (800)211-8589

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

: 16 Aug 2023

: 21 Aug 2023