

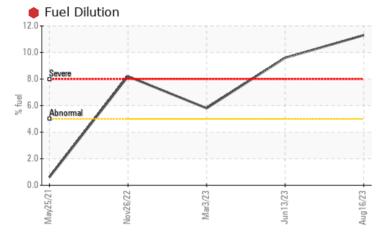
### **PROBLEM SUMMARY**

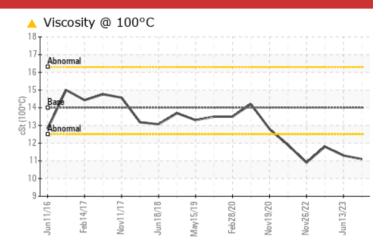
# Sample Rating Trend FUEL

#### Area KANSAS/44/EG - OTHER SERVICE 53.125L [KANSAS^44^EG - OTHER SERVICE] Component Diesel Engine Fluid

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

#### COMPONENT CONDITION SUMMARY





#### RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE	ABNORMAL		
Fuel	%	ASTM D3524	>5	<b>e</b> 11.3	9.6	<b>5</b> .8		
Visc @ 100°C	cSt	ASTM D445	14	🔺 11.1	🔺 11.3	<b>1</b> 1.8		

Customer Id: SHEWIC Sample No.: WC0821636 Lab Number: 05931448 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

#### HISTORICAL DIAGNOSIS



#### 13 Jun 2023 Diag: Wes Davis

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. 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. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



view report

#### 03 Mar 2023 Diag: Jonathan Hester



We advise that you check the fuel injection system. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

#### 26 Nov 2022 Diag: Don Baldridge



## We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. 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 result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.







## **OIL ANALYSIS REPORT**

KANSAS/44/EG - OTHER SERVICE 53.125L [KANSAS^44^EG - OTHER SERVICE]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)



#### DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

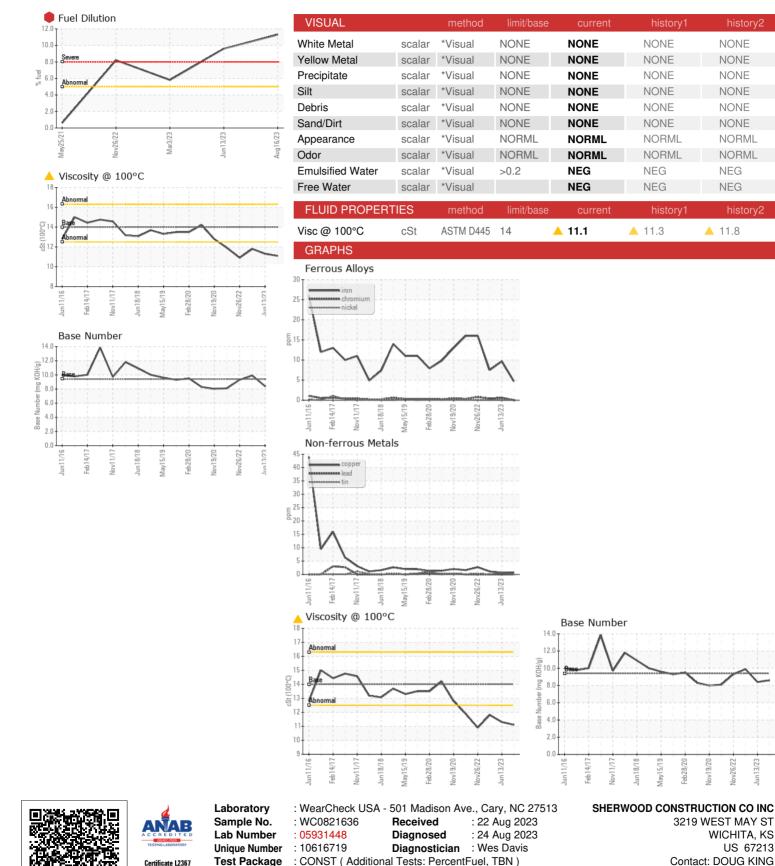
#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0821636	WC0781258	WC0779844
Sample Date		Client Info		16 Aug 2023	13 Jun 2023	03 Mar 2023
Machine Age	hrs	Client Info		4371	4251	4122
Oil Age	hrs	Client Info		3641	3521	3521
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	5	10	8
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	3	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	52	58	56
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	32	34	33
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	471	545	465
Calcium	ppm	ASTM D5185m		1531	1660	1550
Phosphorus	ppm	ASTM D5185m		710	779	713
Zinc	ppm	ASTM D5185m		855	951	840
Sulfur	ppm	ASTM D5185m		2802	3204	2508
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	7	7
Sodium	ppm	ASTM D5185m		3	2	2
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Fuel	%	ASTM D3524	>5	<b>•</b> 11.3	9.6	<mark>▲</mark> 5.8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.2	0.1
Nitration	Abs/cm	*ASTM D7624		6.8	9.0	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	21.6	21.4
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	21.2	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.6	8.4	9.9



## **OIL ANALYSIS REPORT**



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.

3219 WEST MAY ST WICHITA, KS US 67213 Contact: DOUG KING doug.king@sherwood.net T: (316)617-3161 F: x: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

07/91/vol

Vov26/22

-h28/20

Jun 18/18

Mav15/1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

11.3

history

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

**11.8** 

Submitted By: JACUP RICHEY

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