

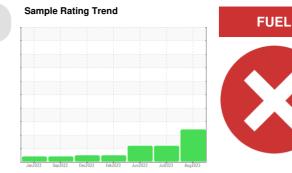
PROBLEM SUMMARY



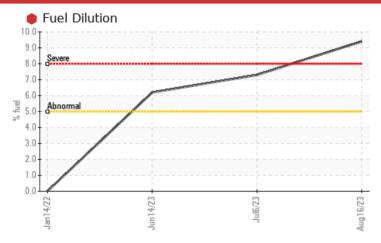
KANSAS/44
Machine Id
53.160L [KANSAS^44]

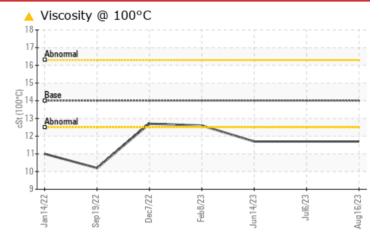
Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (3 GAL)









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	ABNORMAL	ABNORMAL
Fuel	%	ASTM D3524	>5	9.4	△ 7.3	△ 6.2
Visc @ 100°C	cSt	ASTM D445	14	11.7	<u> 11.7</u>	<u></u> 11.7

Customer Id: SHEWIC Sample No.: WC0821644 Lab Number: 05931449 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

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

06 Jul 2023 Diag: Wes Davis

FUEL



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. Metal levels are typical for a new component breaking in. There is a moderate 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. The oil is no longer serviceable due to the presence of contaminants.



14 Jun 2023 Diag: Wes Davis

FUEL



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. Metal levels are typical for a new component breaking in. There is a moderate 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.



08 Feb 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





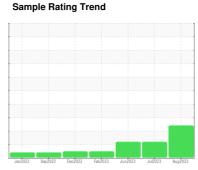
OIL ANALYSIS REPORT



KANSAS/44 Machine Id 53.160L [KANSAS^44]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (3 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

Metal levels are typical for a new component breaking in.

Contamination

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

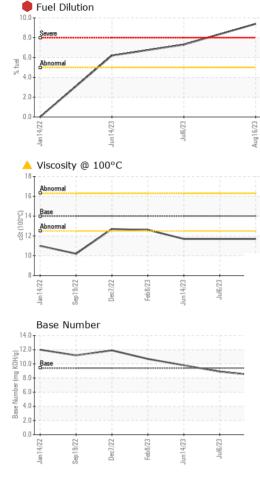
▲ Fluid Condition

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.

		Janzozz	OSPECZE DECECE	TOURDED OUNEDED	Augzozs	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0821644	WC0821552	WC0745971
Sample Date		Client Info		16 Aug 2023	06 Jul 2023	14 Jun 2023
Machine Age	hrs	Client Info		841	798	668
Oil Age	hrs	Client Info		403	490	610
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				SEVERE	ABNORMAL	ABNORMAL
CONTAMINATION	V	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	12	11	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	7	2
Lead	ppm	ASTM D5185m	>40	0	4	0
Copper	ppm	ASTM D5185m	>330	4	8	1
Tin	ppm		>15	0	2	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	43	39	61
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	42	39	42
Manganese	ppm	ASTM D5185m		<1	3	<1
Magnesium	ppm	ASTM D5185m	0	551	594	528
Calcium	ppm	ASTM D5185m		1806	1782	1708
Phosphorus	ppm	ASTM D5185m		812	847	771
Zinc	ppm	ASTM D5185m		984	1064	957
Sulfur	ppm	ASTM D5185m		2843	3147	2852
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		6	8	6
Sodium	ppm	ASTM D5185m		5	4	28
Potassium	ppm	ASTM D5185m	>20	0	7	3
Fuel	%	ASTM D3524	>5	9.4	▲ 7.3	<u>▲</u> 6.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.9	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	22.4	21.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	22.5	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.4	8.9	9.8



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

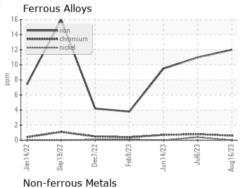
11.7

11.7

<u>11.7</u>

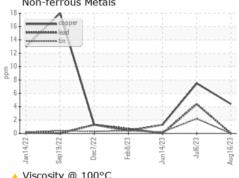
Visc @	100°C
CDAE	эце

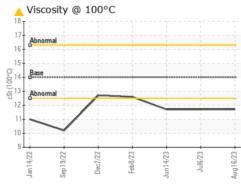
FLUID PROPERTIES

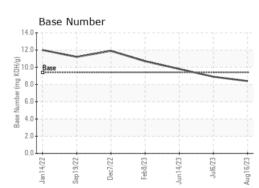


cSt

ASTM D445 14











Laboratory Sample No. Lab Number Unique Number : 10616720

: WC0821644 : 05931449

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Aug 2023 Diagnosed

: 24 Aug 2023 Diagnostician : Wes Davis

Test Package: CONST (Additional Tests: PercentFuel, TBN) 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)

SHERWOOD CONSTRUCTION CO INC

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Submitted By: JACUP RICHEY

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