

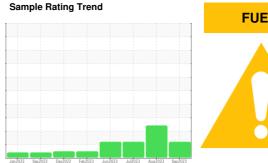
PROBLEM SUMMARY



KANSAS/44 53.160L [KANSAS^44]

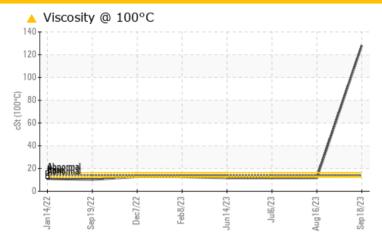
Diesel Engine

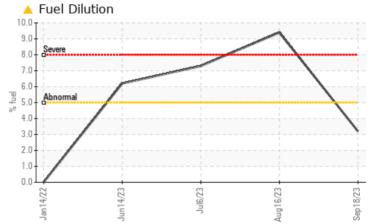
MOBIL DELVAC 1300 SUPER15W40 (3 GAL)





COMPONENT CONDITION SUMMARY





RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	SEVERE	ABNORMAL		
Fuel	%	ASTM D3524	>5	△ 3.2	9.4	△ 7.3		
Visc @ 100°C	cSt	ASTM D445	14	128	<u></u> 11.7	<u> </u>		

Customer Id: SHEWIC Sample No.: WC0781268 Lab Number: 05967322 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

16 Aug 2023 Diag: Wes Davis

FUEL



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



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.





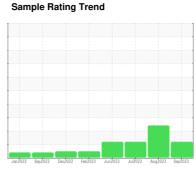
OIL ANALYSIS REPORT



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

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (3 GAL)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Light fuel dilution occurring. No other contaminants were detected 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.

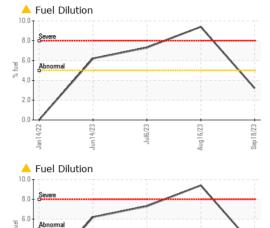
კოლებებ							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0781268	WC0821644	WC0821552	
Sample Date		Client Info		18 Sep 2023	16 Aug 2023	06 Jul 2023	
Machine Age	hrs	Client Info		895	841	798	
Oil Age	hrs	Client Info		841	403	490	
Oil Changed		Client Info		N/A	Changed	Not Changd	
Sample Status				ABNORMAL	SEVERE	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	4	12	11	
Chromium	ppm	ASTM D5185m	>20	0	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	3	2	7	
Lead	ppm	ASTM D5185m	>40	0	0	4	
Copper	ppm	ASTM D5185m	>330	1	4	8	
Tin	ppm	ASTM D5185m	>15	0	0	2	
Vanadium	ppm	ASTM D5185m		0	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	60	43	39	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	0	40	42	39	
Manganese	ppm	ASTM D5185m		<1	<1	3	
Magnesium	ppm	ASTM D5185m	0	471	551	594	
Calcium	ppm	ASTM D5185m		1611	1806	1782	
Phosphorus	ppm	ASTM D5185m		747	812	847	
Zinc	ppm	ASTM D5185m		912	984	1064	
Sulfur	ppm	ASTM D5185m		2807	2843	3147	
CONTAMINANTS							
CONTAMINANTS)	method	limit/base	current	history1	history2	
Silicon	ppm	method ASTM D5185m		current 6	history1	history2 8	
						•	
Silicon	ppm	ASTM D5185m ASTM D5185m ASTM D5185m		6	6	8	
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	6 1	6 5	8 4	
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	6 1 <1	6 5 0	8 4 7	
Silicon Sodium Potassium Fuel	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	>25 >20 >5	6 1 <1 ▲ 3.2	6 5 0	8 4 7 • 7.3	
Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method	>25 >20 >5 limit/base >3	6 1 <1 ▲ 3.2	6 5 0 • 9.4 history1	8 4 7 ▲ 7.3 history2	
Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>25 >20 >5 limit/base >3 >20	6 1 <1 ▲ 3.2 current 0.1	6 5 0 • 9.4 history1	8 4 7 ▲ 7.3 history2 0.1	
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624	>25 >20 >5 limit/base >3 >20	6 1 <1 ▲ 3.2 current 0.1 5.5	6 5 0 • 9.4 history1 0.1 9.0	8 4 7 ▲ 7.3 history2 0.1 8.9	
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>25 >20 >5 limit/base >3 >20 >30 limit/base	6 1 <1 ▲ 3.2 current 0.1 5.5 21.5	6 5 0 9.4 history1 0.1 9.0 21.4 history1	8 4 7 1	
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 >5 limit/base >3 >20 >30 limit/base >25	6 1 <1 ▲ 3.2 current 0.1 5.5 21.5	6 5 0 • 9.4 history1 0.1 9.0 21.4	8 4 7 ▲ 7.3 history2 0.1 8.9 22.4	

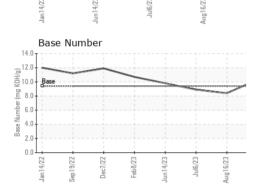


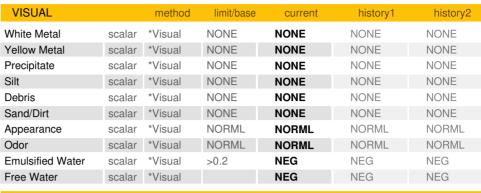
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OIL ANALYSIS REPORT

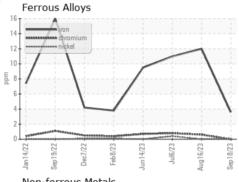


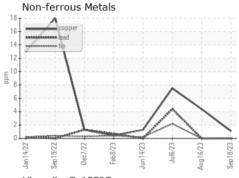


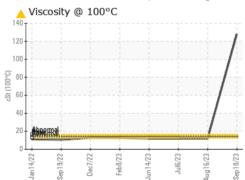


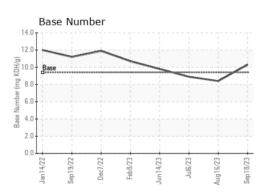
I LOID I NOI LI	TILO	memou	IIIIII/Dase	Current	HISTORY	Tilotoi y z
Visc @ 100°C	cSt	ASTM D445	14	<u> </u>	<u></u> 11.7	<u></u> 11.7

GRAPHS













Laboratory

Sample No. Lab Number **Unique Number**

: 05967322 : 10673873

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : WC0781268 Diagnosed

: 03 Oct 2023 : 05 Oct 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

3219 WEST MAY ST WICHITA, KS US 67213

Contact: RANDY ROBERTS randy.roberts@sherwood.net T: (316)943-6491

F: x: