

60

50

۲,40 d

30

20

10

0

Jul6/23

Abnorma



500

400

300

200

100

0 Apr6/22

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.

May16/23

	Apr6/2	May16/2		Jul6/2.	Apr6/2'	May16/2:	Jul6/2		
	PROBLEMATIC TEST RESULTS								
	Sample Status				ABNORMAL	ABNORMAL	ATTENTION		
	Copper	ppm	ASTM D5185m	>330	<u> </u>	5 51	178		
0	Silicon	ppm	ASTM D5185m	>25	<u> </u>	49	48		
	Visc @ 100°C	cSt	ASTM D445	14	<u> </u>	11.5	▲ 10.9		

15

Base

Abnormal

(D=0014 13

12

11

10

9

Customer Id: SHEWIC Sample No.: WC0781236 Lab Number: 05904169 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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

RECOMMENDED	ACTIONS			
Action	Status	Date	Done By	Descr
Check Dirt Access	MISSED	Aug 02 2023	?	We ad

Description

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.

HISTORICAL DIAGNOSIS



16 May 2023 Diag: Sean Felton

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



06 Apr 2022 Diag: Jonathan Hester

VISCOSITY



No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.





OIL ANALYSIS REPORT

Sample Rating Trend



Area KANSAS/44 Machine Id 69.106L [KANSAS^44] Component Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.

🔺 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

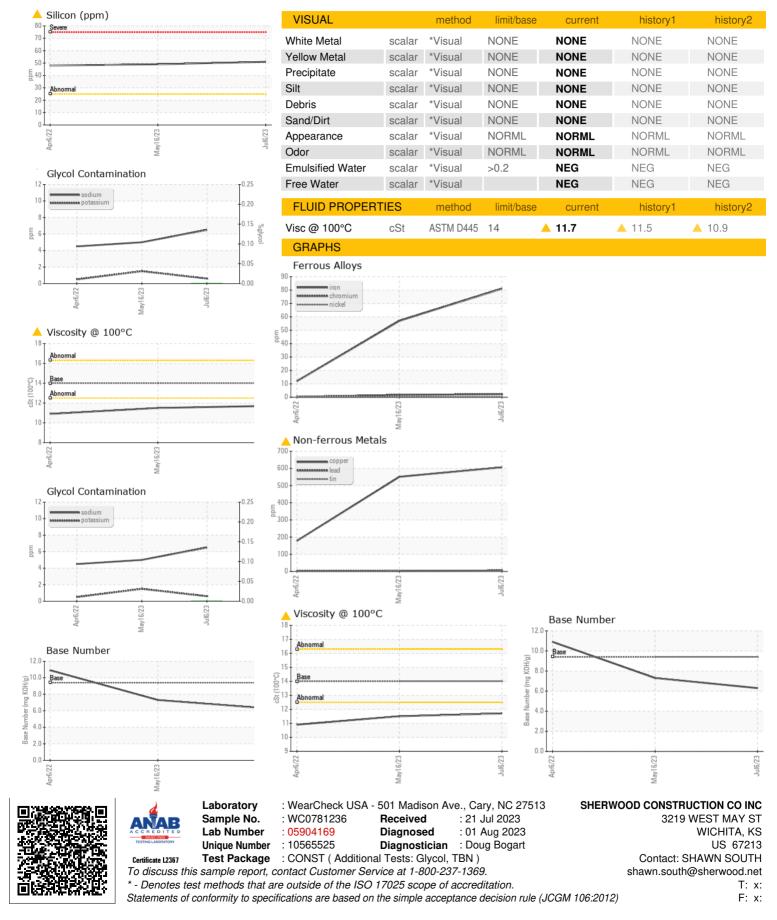
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		WC0781236	WC0781171	WC0640017
Sample Date		Client Info		06 Jul 2023	16 May 2023	06 Apr 2022
Machine Age	hrs	Client Info		1315	1101 1101	10
Oil Age	hrs	Client Info		1101	10	10
Oil Changed	1110	Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
CONTAMINATIO		method	limit/base	current	history1	
Fuel	N	WC Method		<1.0	<1.0	history2
						-
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	81	57	12
Chromium	ppm	ASTM D5185m		2	2	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	1
Aluminum	ppm	ASTM D5185m		4	2	2
Lead	ppm	ASTM D5185m	>40	5	2	3
Copper	ppm	ASTM D5185m	>330	▲ 606	<u>▲</u> 551	178
Tin	ppm	ASTM D5185m	>15	4	3	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	16	22	74
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	43	39	38
Manganese	ppm	ASTM D5185m		4	3	2
Magnesium	ppm	ASTM D5185m	0	558	517	522
Calcium	ppm	ASTM D5185m		1972	1813	1796
Phosphorus	ppm	ASTM D5185m		971	916	989
Zinc	ppm	ASTM D5185m		1192	1119	1018
Sulfur	ppm	ASTM D5185m		2860	2922	2785
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u> </u>	49	48
Sodium	ppm	ASTM D5185m		6	5	4
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
Glycol	%	*ASTM D2982		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.6	0.1
Nitration	Abs/cm	*ASTM D7624	>20	14.1	12.8	4.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.3	25.4	21.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.4	25.6	18.6
Base Number (BN)	mg KOH/g	ASTM D2896		6.3	7.3	10.9
(=/•)	9 9					



OIL ANALYSIS REPORT



Submitted By: JESSE HAAS