

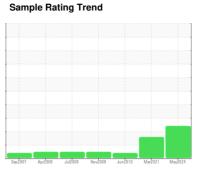
# **OIL ANALYSIS REPORT**



KANSAS/44/EG - OTHER SERVICE 53.88L [KANSAS^44^EG - OTHER SERVICE]

**Diesel Engine** 

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)





### Recommendation

Check for low coolant level. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

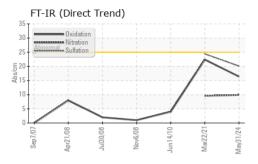
### Fluid Condition

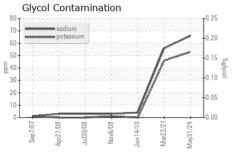
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

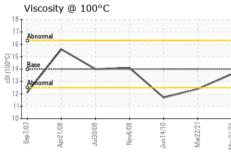
301 E1113W40 (	GAL)					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0918063	WC0528175	WC65381015
Sample Date		Client Info		31 May 2024	22 Mar 2021	14 Jun 2010
Machine Age	hrs	Client Info		4982	4755	
Oil Age	hrs	Client Info		4982	0	
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				ATTENTION	ATTENTION	ABNORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.2	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	22	35	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	2	3	1
Lead	ppm	ASTM D5185m	>40	4	5	0
Copper	ppm	ASTM D5185m	>330	3	4	2
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Antimony	ppm	ASTM D5185m			<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	35	39	33
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	29	54	35
Manganese	ppm	ASTM D5185m		<1	1	
Magnesium	ppm	ASTM D5185m	0	649	542	627
Calcium	ppm	ASTM D5185m		1518	1708	1249
Phosphorus	ppm	ASTM D5185m		808	937	814
Zinc	ppm	ASTM D5185m		949	1129	926
Sulfur	ppm	ASTM D5185m		3026	2516	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	12	6
Sodium	ppm	ASTM D5185m		<u>66</u>	56	4
Potassium	ppm	ASTM D5185m	>20	<b>53</b>	46	0
Glycol	%	*ASTM D2982		NEG	NEG	0.00
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.9	9.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	24.4	
FLUID DEGRADA	TION				history1	
FLUID DEGRADA Oxidation	TION Abs/.1mm	method *ASTM D7414	limit/base	current 16.4	history1 22.4	history2 4

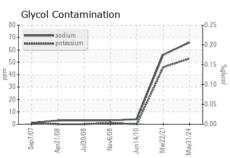


## **OIL ANALYSIS REPORT**





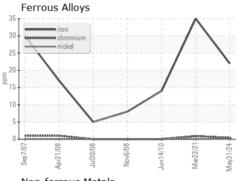


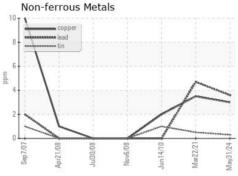


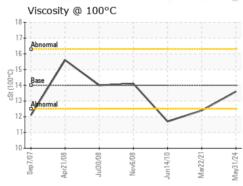
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

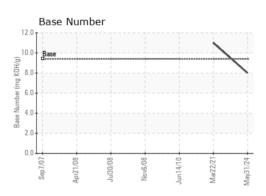
FLUID PROPER	HES					
Visc @ 100°C	cSt	ASTM D445	14	13.6	<u>12.4</u>	<u>11.7</u>

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06208417

: WC0918063

Received **Tested** Unique Number : 11075878 Diagnosed

: 13 Jun 2024 : 14 Jun 2024

: 14 Jun 2024 - Sean Felton

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS US 67213 Contact: DOUG KING

Test Package : CONST ( Additional Tests: Glycol, TBN ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

doug.king@sherwood.net T: (316)617-3161

\* - 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)

F: x: