

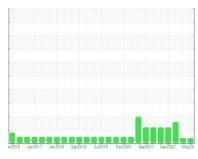
# **OIL ANALYSIS REPORT**



KANSAS/44/EG - EXCAVATOR 20.140L [KANSAS^44^EG - EXCAVATOR]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)



Sample Rating Trend



### Recommendation

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

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

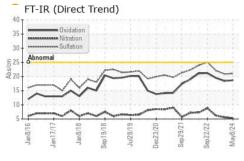
### Fluid Condition

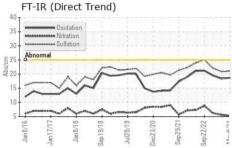
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

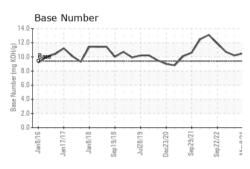
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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0918395	WC0789906	WC0712227
Sample Date		Client Info		08 May 2024	11 Sep 2023	24 Apr 2023
Machine Age	hrs	Client Info		6208	5806	5630
Oil Age	hrs	Client Info		402	176	291
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	9	26	12
Chromium	ppm	ASTM D5185m	>20	2	<1	<1
Nickel	ppm	ASTM D5185m	>2	2	<1	<1
Titanium	ppm	ASTM D5185m	>2	2	0	0
Silver	ppm	ASTM D5185m	>2	3	0	0
Aluminum	ppm	ASTM D5185m	>25	6	14	8
Lead	ppm	ASTM D5185m	>40	2	<1	0
Copper	ppm	ASTM D5185m	>330	3	2	8
Tin	ppm	ASTM D5185m	>15	2	0	0
Vanadium	ppm	ASTM D5185m		2	0	0
Cadmium	ppm	ASTM D5185m		2	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	67	58	41
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	0	39	45	47
Manganese	ppm	ASTM D5185m		3	<1	1
Magnesium	ppm	ASTM D5185m	0	457	495	535
Calcium	ppm	ASTM D5185m		1603	1694	1827
Phosphorus	ppm	ASTM D5185m		902	951	958
Zinc	ppm	ASTM D5185m		1065	1120	1150
Sulfur	ppm	ASTM D5185m		3255	3302	3919
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	7	2
Sodium	ppm	ASTM D5185m		8	31	<b>86</b>
Potassium	ppm	ASTM D5185m	>20	4	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.3	5.6	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	20.9	22.1
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	18.4	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	10.5	10.2	10.7



## **OIL ANALYSIS REPORT**







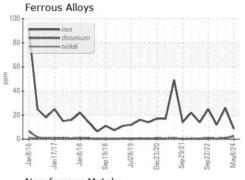
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

**11.2** 

**11.1** 

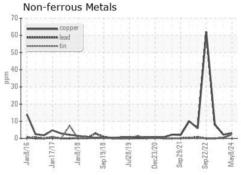
11.4

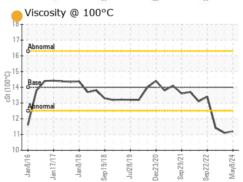
Visc @	100°C
GRAF	PHS

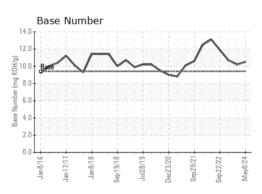


cSt

ASTM D445 14











Certificate 12367

Laboratory Sample No.

: WC0918395 Lab Number : 06182393 Unique Number : 11033719

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 17 May 2024 : 20 May 2024 Diagnosed Test Package : CONST ( Additional Tests: TBN )

: 20 May 2024 - Don Baldridge

3219 WEST MAY ST WICHITA, KS US 67213 Contact: DOUG KING

SHERWOOD CONSTRUCTION CO INC

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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Report Id: SHEWIC [WUSCAR] 06182393 (Generated: 05/20/2024 13:59:36) Rev: 1

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