

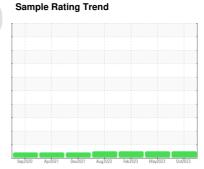
OIL ANALYSIS REPORT



KANSAS/44/EG - EXCAVATOR 20.019L [KANSAS^44^EG - EXCAVATOR] Component

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

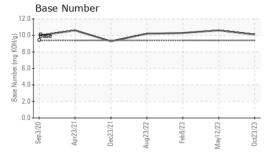
Fluid Condition

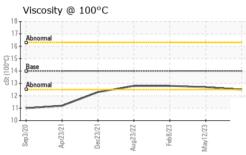
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0833816	WC0789932	WC0741810
Sample Date		Client Info		23 Oct 2023	12 May 2023	08 Feb 2023
Machine Age	hrs	Client Info		7556	2276	2003
Oil Age	hrs	Client Info		0	5553	5794
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	6	8	9
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	<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	48	55	55
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	39	41	41
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	0	476	517	534
Calcium	ppm	ASTM D5185m		1677	1747	1617
Phosphorus	ppm	ASTM D5185m		786	793	760
Zinc	ppm	ASTM D5185m		878	955	957
Sulfur	ppm	ASTM D5185m		2359	2535	2829
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	5	4
Sodium	ppm	ASTM D5185m		4	3	2
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.8	7.0	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	22.5	22.1
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.0	20.7	20.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	10.1	10.6	10.3



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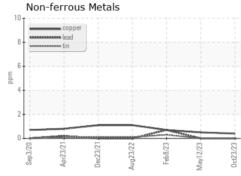


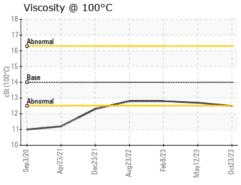


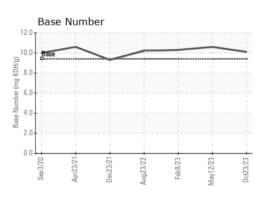
White Metal scal	ar *Visual	NONE			
		NONE	NONE	NONE	NONE
Yellow Metal sca	ar *Visual	NONE	NONE	NONE	NONE
Precipitate sca	ar *Visual	NONE	NONE	NONE	NONE
Silt sca	ar *Visual	NONE	NONE	NONE	NONE
Debris sca	ar *Visual	NONE	NONE	NONE	NONE
Sand/Dirt sca	ar *Visual	NONE	NONE	NONE	NONE
Appearance scal	ar *Visual	NORML	NORML	NORML	NORML
Odor sca	ar *Visual	NORML	NORML	NORML	NORML
Emulsified Water sca	ar *Visual	>0.2	NEG	NEG	NEG
Free Water sca	ar *Visual		NEG	NEG	NEG

FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	14	12.5	12.7	12.8	

Ferrous Alloys











Laboratory Sample No. Lab Number

: 05994064 Unique Number : 10722424

: WC0833816

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 Oct 2023 Diagnosed : 31 Oct 2023

Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: 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)

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