

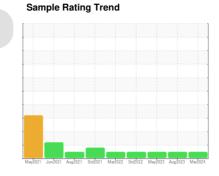
OIL ANALYSIS REPORT



COLORADO/443/EG - EXCAVATOR 20.411L [COLORADO^443^EG - EXCAVATOR]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (6 GAL)





DIAGNOSIS

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

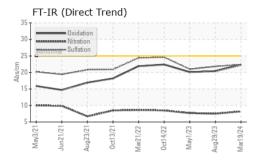
Fluid Condition

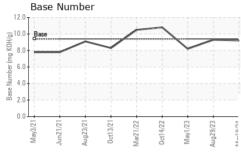
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

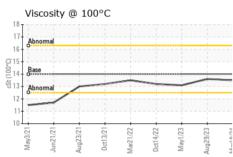
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0883959	WC0823091	WC0799017
Sample Date		Client Info		19 Mar 2024	29 Aug 2023	01 May 2023
Machine Age	hrs	Client Info		4354	3845	3397
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	18	22	22
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium		ASTM D5185m	>2	<1	0	0
Silver	ppm				0	0
	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	11	8	19
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm		>330	3	5	10
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	26	26	37
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	42	43	42
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	560	574	546
Calcium	ppm	ASTM D5185m		1844	1855	1757
Phosphorus	ppm	ASTM D5185m		822	769	754
Zinc	ppm	ASTM D5185m		1001	960	928
Sulfur	ppm	ASTM D5185m		3033	2864	2782
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	7	5
Sodium	ppm	ASTM D5185m		3	2	2
Potassium	ppm	ASTM D5185m	>20	1	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.5	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	21.8	21.0
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.3	20.4	20.1
Base Number (BN)	mg KOH/g	ASTM D2896		9.2	9.3	8.2
Dasc Namber (DIV)	my Kori/g	AOTIVI DE030	J. T	3.2	0.0	0.2



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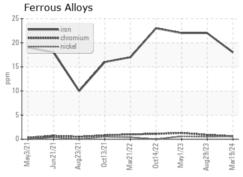


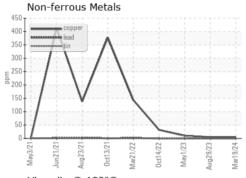


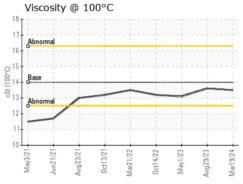
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

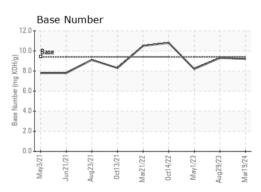
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	14	13.5	13.6	13.1	

GRAPHS













Laboratory Sample No.

: WC0883959 Lab Number : 06142029 Unique Number : 10966837

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

: 08 Apr 2024 **Tested** : 09 Apr 2024 Diagnosed

: 09 Apr 2024 - Wes Davis

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS

US 67213 Contact: DOUG KING doug.king@sherwood.net T: (316)617-3161

Test Package : CONST (Additional Tests: TBN) Certificate 12367 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)

Report Id: SHEWIC [WUSCAR] 06142029 (Generated: 04/09/2024 19:07:32) Rev: 1

Submitted By: BRANDEN JAQUIAS

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