

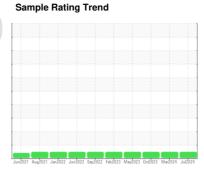
OIL ANALYSIS REPORT



COLORADO/443/EG - EXCAVATOR 20.204L [COLORADO^443^EG - EXCAVATOR]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (5 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

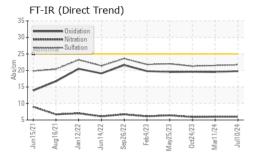
Fluid Condition

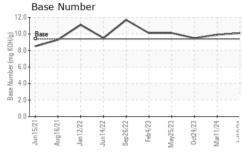
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

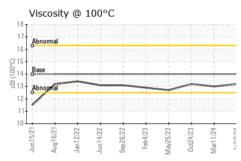
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0928621	WC0883889	WC0859685	
Sample Date		Client Info		10 Jul 2024	11 Mar 2024	24 Oct 2023	
Machine Age	hrs	Client Info		3298	3042	2770	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION		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	
ron	ppm	ASTM D5185m	>100	7	6	4	
Chromium	ppm	ASTM D5185m	>20	0	0	0	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	2	2	2	
_ead	ppm	ASTM D5185m	>40	0	0	<1	
Copper	ppm		>330	0	<1	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m	7 10	0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	48	54	52	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	0	40	39	39	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	0	513	529	521	
Calcium	ppm	ASTM D5185m		1754	1601	1615	
Phosphorus	ppm	ASTM D5185m		831	765	748	
Zinc	ppm	ASTM D5185m		931	894	892	
Sulfur	ppm	ASTM D5185m		3011	2843	2430	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	4	5	
Sodium	ppm	ASTM D5185m		2	2	1	
Potassium	ppm	ASTM D5185m	>20	0	0	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	6.0	6.0	5.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	21.5	21.3	
FLUID DEGRADATION method limit/base current history1 history2							
FLUID DEGRADA	TION _	method				history2	
FLUID DEGRADA Oxidation	TION Abs/.1mm	method *ASTM D7414	limit/base >25	current 19.8	history1 19.5	history2 19.6	



OIL ANALYSIS REPORT



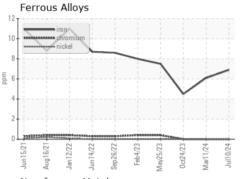


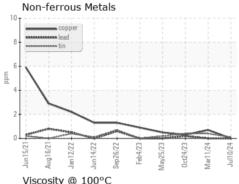


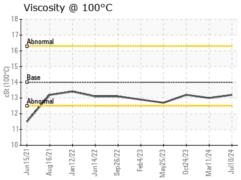
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

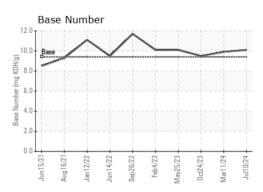
FLUID PROPER	TIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14	13.2	13.0	13.2

GRAPHS













Laboratory Sample No.

Lab Number : 06237405 Unique Number : 11126239

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0928621

Received **Tested** Diagnosed

: 15 Jul 2024 : 17 Jul 2024 : 17 Jul 2024 - Wes Davis

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS

US 67213 Contact: DOUG KING

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

Submitted By: BRANDEN JAQUIAS

F: x: