

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

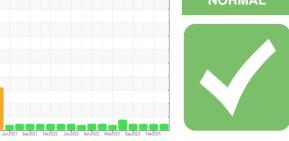
# **NORMAL**



COLORADO/443/EG - LOADER 46.94L [COLORADO^443^EG - LOADER]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- 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

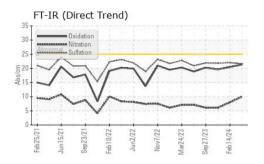
## **Fluid Condition**

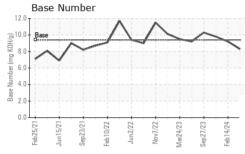
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

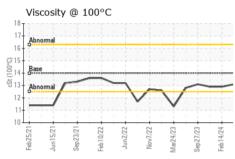
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0928729	WC0884023	WC0859633
Sample Date		Client Info		07 May 2024	14 Feb 2024	14 Nov 2023
Machine Age	hrs	Client Info		4945	4693	4429
Oil Age	hrs	Client Info		4945	4693	0
Oil Changed		Client Info		Not Changd	Not Changd	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	25	16	4
Chromium	ppm	ASTM D5185m	>20	2	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	14	8	4
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper			>330	2	1	0
Sopper Tin	ppm			_	<1	0
	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	30	37	44
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	42	42	39
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	523	548	539
Calcium	ppm	ASTM D5185m		1764	1681	1626
Phosphorus	ppm	ASTM D5185m		805	816	797
Zinc	ppm	ASTM D5185m		934	996	937
Sulfur	ppm	ASTM D5185m		2801	2562	2484
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	3
Sodium	ppm	ASTM D5185m		3	2	0
				-	_	
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Potassium INFRA-RED	ppm	ASTM D5185m method	>20 limit/base			0
	ppm %			0	<1	0
INFRA-RED		method	limit/base	<b>o</b> current	<1 history1	0 history2
INFRA-RED	%	method *ASTM D7844	limit/base	current	<1 history1 0.4	0 history2 0.2
INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	method  *ASTM D7844  *ASTM D7624	limit/base >3 >20	0 current 0.6 10.0	<1 history1 0.4 8.0	0 history2 0.2 6.1 21.8
INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method  *ASTM D7844  *ASTM D7624  *ASTM D7415	limit/base >3 >20 >30	0 current 0.6 10.0 21.6	<1 history1 0.4 8.0 22.0	0 history2 0.2 6.1



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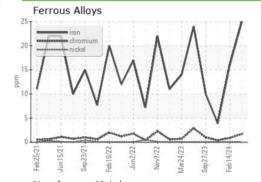


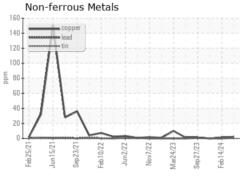


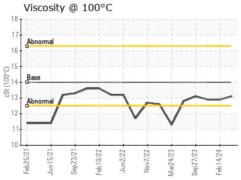
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

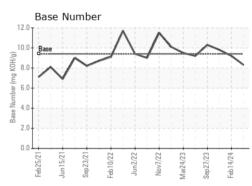
FLUID PROPERI	IES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	14	13.1	12.9	12.9

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06176956

: WC0928729 Unique Number : 11023009

Received **Tested** Diagnosed

: 13 May 2024 : 14 May 2024

: 14 May 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 ) 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] 06176956 (Generated: 05/14/2024 16:12:34) Rev: 1

Submitted By: BRANDEN JAQUIAS

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