

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

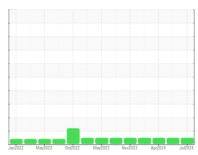
## NORMAL



# COLORADO/443 46.105L [COLORADO^443]

Component Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (4 GAL)





## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Woor

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

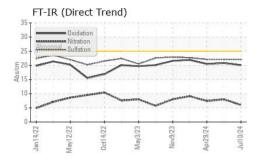
## **Fluid Condition**

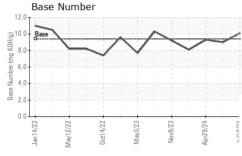
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

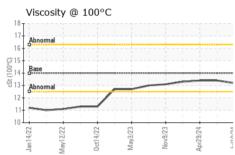
SAMPLE INFORM	ATION	method	limit/base		history1	history2
Sample Number		Client Info		WC0928643	WC0928672	WC0928764
Sample Date		Client Info		10 Jul 2024	31 May 2024	29 Apr 2024
Machine Age	hrs	Client Info		2690	2523	2398
Oil Age	hrs	Client Info		167	0	0
Oil Changed	1110	Client Info		Changed	Changed	Changed
Sample Status		Olioni illio		NORMAL	NORMAL	NORMAL
CONTAMINATION	V	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	7	18	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	8	5
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m		0	3	<1
Tin	ppm	ASTM D5185m		0	<1	<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	38	42	49
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	39	41	43
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	0	515	484	572
Calcium	ppm	ASTM D5185m		1744	1684	2016
Phosphorus	ppm	ASTM D5185m		825	741	885
Zinc	ppm	ASTM D5185m		945	903	1078
Sulfur	ppm	ASTM D5185m		2992	2467	3250
CONTAMINANTS		method	limit/base	current	history1	history2
CONTAMINANTS Silicon	ppm	method ASTM D5185m			history1	history2
				current		
Silicon	ppm	ASTM D5185m		current 5	7	4
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>25	current 5 2	7 <1	<1
Silicon Sodium Potassium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25	current 5 2 0	7 <1 2	4 <1 0
Silicon Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >20 limit/base	current 5 2 0 current	7 <1 2 history1	4 <1 0 history2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >20 limit/base >3 >20	current 5 2 0 current 0.2	7 <1 2 history1 0.3	4 <1 0 history2 0.3
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>25 >20 limit/base >3 >20	current 5 2 0 current 0.2 6.0	7 <1 2 history1 0.3 8.0	4 <1 0 history2 0.3 7.4 22.1
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20 >30	current 5 2 0 current 0.2 6.0 22.1	7 <1 2 history1 0.3 8.0 22.1	4 <1 0 history2 0.3 7.4



## **OIL ANALYSIS REPORT**



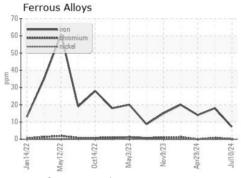


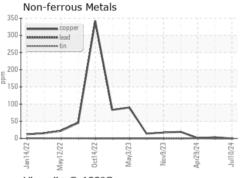


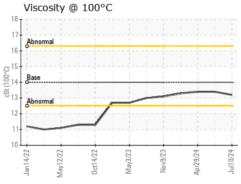
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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

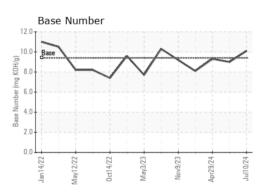
FLUID PROPER	HES	method	ilmit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	14	13.2	13.4	13.4

### **GRAPHS**













Laboratory Sample No.

: WC0928643 Lab Number : 06237406 Unique Number : 11126240

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024 **Tested** 

: 17 Jul 2024 Diagnosed : 17 Jul 2024 - Wes Davis

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] 06237406 (Generated: 07/17/2024 08:21:00) Rev: 1

Submitted By: BRANDEN JAQUIAS

SHERWOOD CONSTRUCTION CO INC

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