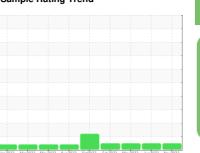


OIL ANALYSIS REPORT

Sample Rating Trend







66

COLORADO/443 Machine Id 46.105L [COLORADO^443]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (4 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

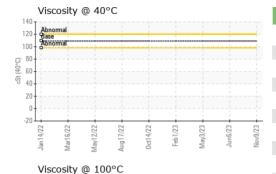
Fluid Condition

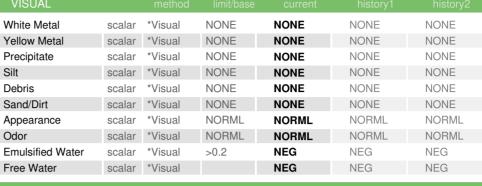
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	/	Jan2022 Ma	r2022 May2022 Aug2022	Oct2022 Feb2023 May2023 Jun20	123 Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0859635	WC0798995	WC0799163
Sample Date		Client Info		09 Nov 2023	06 Jun 2023	03 May 2023
Machine Age	hrs	Client Info		1832	1512	1434
Oil Age	hrs	Client Info		320	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
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	15	9	20
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	12	5	10
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	17	14	90
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	35	57	36
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	38	41	37
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	498	543	517
Calcium	ppm	ASTM D5185m		1601	1757	1634
Phosphorus	ppm	ASTM D5185m		722	805	732
Zinc	ppm	ASTM D5185m		874	968	918
Sulfur	ppm	ASTM D5185m		2263	3193	2839
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	7
Sodium	ppm	ASTM D5185m		3	2	3
Potassium	ppm	ASTM D5185m	>20	0	<1	2
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED Soot %	%	method *ASTM D7844	limit/base	current 0.3	history1 0.1	history2 0.3
	% Abs/cm					
Soot %		*ASTM D7844	>3 >20	0.3	0.1	0.3
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624	>3 >20	0.3 8.0	0.1 5.7	0.3 8.0
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20 >30	0.3 8.0 22.9	0.1 5.7 22.6	0.3 8.0 20.5
Soot % Nitration Sulfation FLUID DEGRADA	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415 method *ASTM D7414	>3 >20 >30 limit/base >25	0.3 8.0 22.9 current	0.1 5.7 22.6 history1	0.3 8.0 20.5 history2



OIL ANALYSIS REPORT

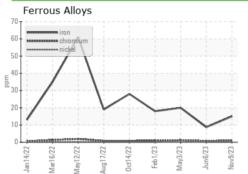




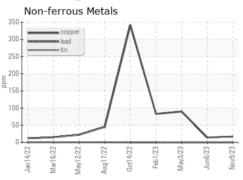
Abnormal	
	Base
	Abnormal

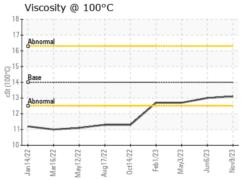
FLUID PROPER	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14	13.1	13.0	12.7

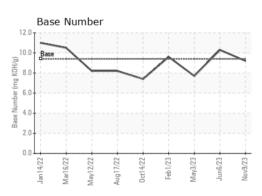
Viscosity @ 40°C 140 120 100 80 cSt (40°C) 60 20



GRAPHS











Laboratory Sample No.

Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0859635 : 06008957 : 10742719

Received Diagnosed

: 18 Nov 2023 Diagnostician : Don Baldridge

: 15 Nov 2023

Test Package : CONST (Additional Tests: KV40, 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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Contact: DOUG KING doug.king@sherwood.net

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