

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

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

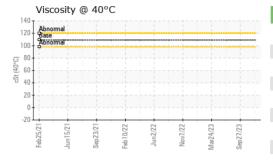
Fluid Condition

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

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0859633	WC0859665	WC0823146		
Sample Date		Client Info		14 Nov 2023	27 Sep 2023	25 Aug 2023		
Machine Age	hrs	Client Info		4429	4252	4122		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				NORMAL	NORMAL	ABNORMAL		
CONTAMINATIO	N	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	4	10	24		
Chromium	ppm	ASTM D5185m	>20	<1	1	3		
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	4	5	<u>^</u> 23		
Lead	ppm	ASTM D5185m	>40	0	<1	0		
Copper	ppm	ASTM D5185m	>330	0	1	1		
Tin	ppm	ASTM D5185m	>15	0	<1	<1		
Vanadium	ppm	ASTM D5185m		0	<1	0		
Cadmium	ppm	ASTM D5185m		0	<1	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	44	55	57		
Barium	ppm	ASTM D5185m	0	0	0	0		
Molybdenum	ppm	ASTM D5185m	0	39	40	34		
Manganese	ppm	ASTM D5185m		<1	<1	<1		
Magnesium	ppm	ASTM D5185m	0	539	526	564		
Calcium	ppm	ASTM D5185m		1626	1686	1719		
Phosphorus	ppm	ASTM D5185m		797	746	786		
Zinc	ppm	ASTM D5185m		937	907	974		
Sulfur	ppm	ASTM D5185m		2484	2523	3284		
CONTAMINANTS	3	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	3	5	5		
Sodium	ppm	ASTM D5185m		0	2	2		
Potassium	ppm	ASTM D5185m	>20	0	1	<1		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	6.1	6.1	7.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	21.9	20.9		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	20.2	18.9		
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.8	10.3	9.2		

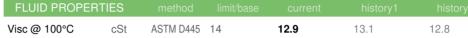


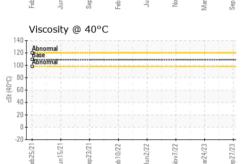
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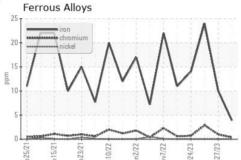


VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance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

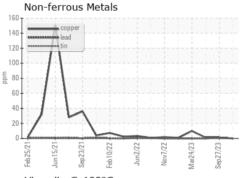
Viscosity	@ 100	°C					
17- Abnormal							
015 Base							
Abnormal	_		\neg	_			=
11-					~		
Feb25/21 Jun15/21	Sep23/21	Feb10/22	Jun2/22	Nov7/22	Mar24/23	Sep27/23	

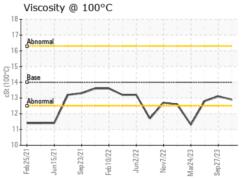


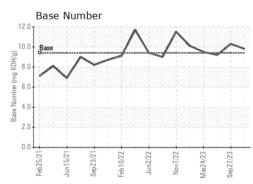




GRAPHS











Laboratory Sample No.

Lab Number Unique Number

: WC0859633 : 06010051 : 10749195

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Nov 2023 Diagnosed

: 20 Nov 2023 Diagnostician : Don Baldridge

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.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)