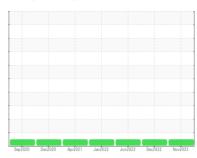


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 2135 Component

Diesel Engine

DIESEL ENGINE OIL SAE 5W30 (--- QTS)

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

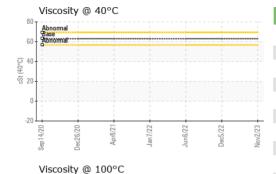
Fluid Condition

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

		Sep2020	Dec2020 Apr2021	Jan 2022 Jun 2022 Dec 2022	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836301	WC0686119	WC0686149
Sample Date		Client Info		02 Nov 2023	05 Dec 2022	06 Jun 2022
Machine Age	mls	Client Info		476149	375528	319488
Oil Age	mls	Client Info		50000	100000	100000
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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	69	7	31
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	13	2	7
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	7	<1	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Antimony	ppm	ASTM D5185m				
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	250	12	141	18
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	62	59	65
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	450	592	417	1133
Calcium	ppm	ASTM D5185m	3000	1589	1799	867
Phosphorus	ppm	ASTM D5185m	1150	971	1038	1052
Zinc	ppm	ASTM D5185m	1350	1309	1217	1306
Sulfur	ppm	ASTM D5185m	4250	2745	4133	3187
CONTAMINANTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	11	8	7
Sodium	ppm	ASTM D5185m		4	2	3
Potassium	ppm	ASTM D5185m	>20	9	2	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.9	0.1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	13.2	4.9	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.1	20.1	24.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.7	14.8	23.1
Base Number (BN)	mg KOH/g	ASTM D2896		5.2	10.8	6.6
(= • •)	39					



OIL ANALYSIS REPORT



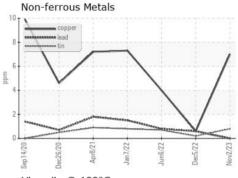
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

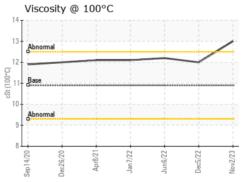
13					
Abnorm	al				
11 Base					
11- Base					
3 10	i				
Abnorm	al				
9					
84	-	-	2-	- 2	2
Sep14/2	Dec26/20	Apr8/21	Jan 7/22	Jun6/2:	ec5/2/

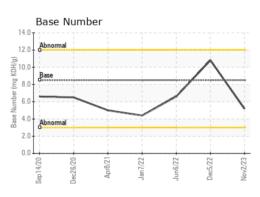
FLUID PROPER	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	10.9	13.0	12.0	12.2

Viscosity @ 40°C Jan 7/22

Ferrous Alloys 10









Laboratory Sample No. Lab Number Unique Number

: WC0836301 : 06008831

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10742593

: 15 Nov 2023 Diagnosed

: 16 Nov 2023 Diagnostician : Sean Felton

PO BOX 1081 EDEN, NC US 27289 Contact: MAINTENANCE

Test Package : FLEET (Additional Tests: KV40) To discuss this sample report, contact Customer Service at 1-800-237-1369.

maintenancemanager@mabetrucking.com T:

Contact/Location: MAINTENANCE ? - MABEDE

* - 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)

F: (336)635-1791

MABE TRUCKING