

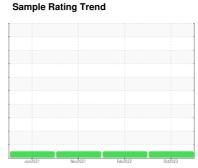
OIL ANALYSIS REPORT



Chester MACK 7003

Component **Diesel Engine**

DIESEL ENGINE OIL SAE 15W40 (40 QTS)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

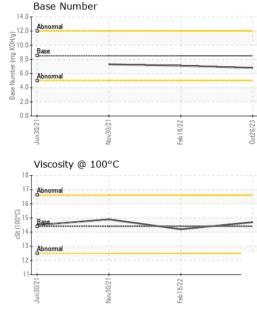
Fluid Condition

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

AE 15W40 (40 G	Jun ² 021 Nov ² 021 Feb ² 022 Oct ² 023					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0830949	WC0650894	WC0620270
Sample Date		Client Info		26 Oct 2023	18 Feb 2022	30 Nov 2021
Machine Age	hrs	Client Info		450	0	5080
Oil Age	hrs	Client Info		450	500	450
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	Ν	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	20	13	14
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	2	2
Tin	ppm	ASTM D5185m	>15	0	1	<1
Antimony	ppm	ASTM D5185m			<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	250	6	7	4
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	58	51	61
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	450	740	890	1031
Calcium	ppm	ASTM D5185m	3000	1175	1070	1234
Phosphorus	ppm	ASTM D5185m	1150	894	897	1041
Zinc	ppm	ASTM D5185m	1350	1151	1122	1297
Sulfur	ppm	ASTM D5185m	4250	2597	2261	2715
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	4	3
Sodium	ppm	ASTM D5185m	>158	4	2	3
Potassium	ppm	ASTM D5185m	>20	0	<1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1.4	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.7	8.5	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	19.5	20.7
FLUID DEGRAD	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	15.1	16
Base Number (BN)	mg KOH/g	ASTM D2896		6.8	7.1	7.3
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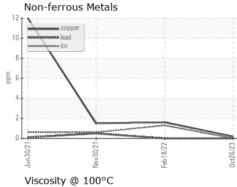


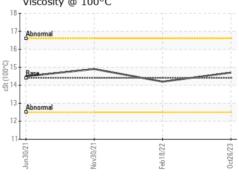
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

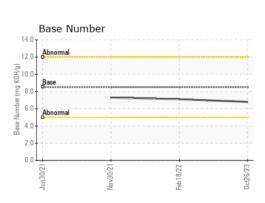
FLUID PROPERTIES		memod			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	14.4	14.7	14.2	14.9

GRAPHS

Ferrous Alloys











Laboratory Sample No. Lab Number

: WC0830949 : 05998681 Unique Number : 10727041 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Nov 2023

Diagnosed : 06 Nov 2023 Diagnostician : Wes Davis

INTERSTATE WASTE-CHESTER

89 BLACK MEADOW RD CHESTER, NY US 10918

Contact: ROB CLARKE rclarke@interstatewaste.com

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)

Contact/Location: ROB CLARKE - INTCHE

F: (845)572-3301