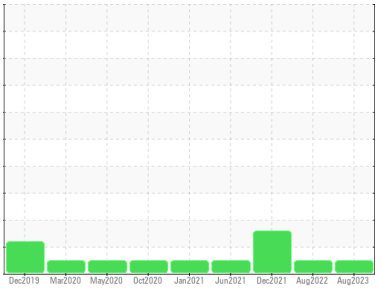
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
2006
Component
Diesel Engine
Fluid
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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0814845**	WC0686110	WC0639593
Sample Date		Client Info		**15 Aug 2023**	08 Aug 2022	17 Dec 2021
Machine Age	mls	Client Info		**580806**	480374	412537
Oil Age	mls	Client Info		**50000**	100000	100000
Oil Changed		Client Info		**N/A**	Changed	N/A
Sample Status				**NORMAL**	NORMAL	ABNORMAL

CONTAMINATION		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	**65**	42	33
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>4	**0**	<1	0
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m	>3	**0**	1	<1
Aluminum	ppm	ASTM D5185m	>20	**7**	5	2
Lead	ppm	ASTM D5185m	>40	**1**	<1	7
Copper	ppm	ASTM D5185m	>330	**11**	8	15
Tin	ppm	ASTM D5185m	>15	**<1**	2	<1
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	**9**	18	39
Barium	ppm	ASTM D5185m	10	**0**	<1	0
Molybdenum	ppm	ASTM D5185m	100	**72**	68	27
Manganese	ppm	ASTM D5185m		**1**	<1	1
Magnesium	ppm	ASTM D5185m	450	**1189**	1023	370
Calcium	ppm	ASTM D5185m	3000	**979**	1038	▲ 2042
Phosphorus	ppm	ASTM D5185m	1150	**1088**	1016	988
Zinc	ppm	ASTM D5185m	1350	**1399**	1253	1148
Sulfur	ppm	ASTM D5185m	4250	**3522**	2809	2698

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**11**	8	6
Sodium	ppm	ASTM D5185m		**8**	2	7
Potassium	ppm	ASTM D5185m	>20	**4**	0	11

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**1.1**	0.9	▲ 3.2
Nitration	Abs/cm	*ASTM D7624	>20	**13.8**	15.4	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	**28.9**	31.5	24.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**29.8**	32.7	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	**4.5**	4.9	9.4

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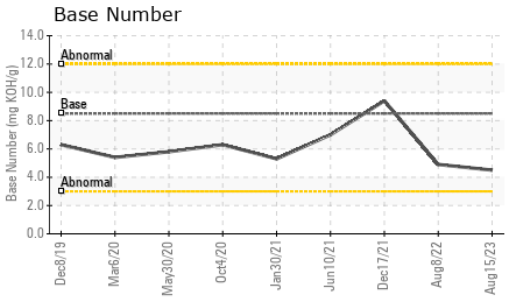
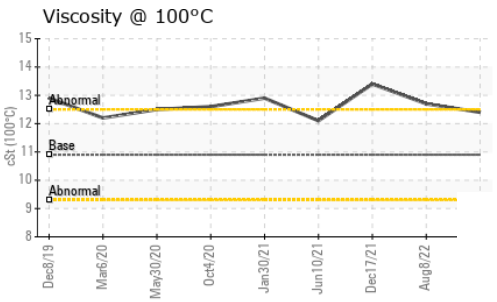
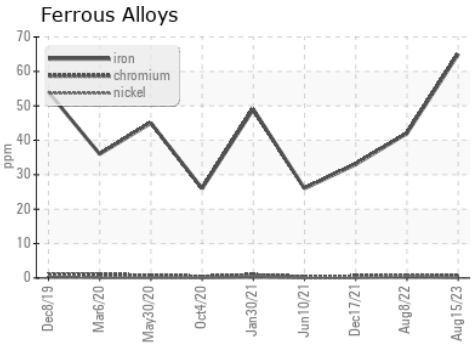


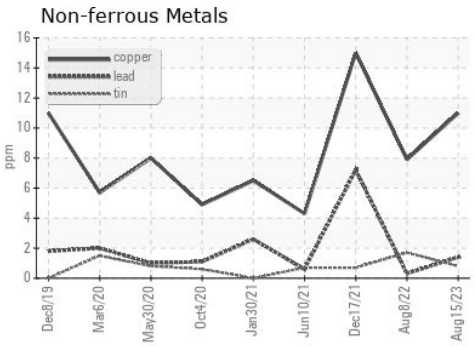


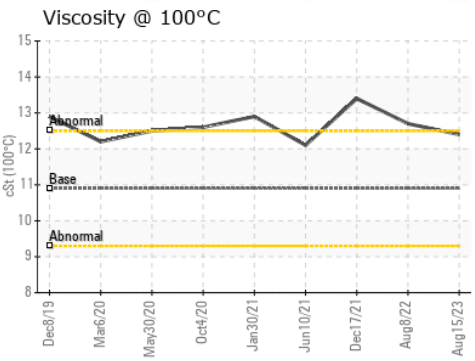
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

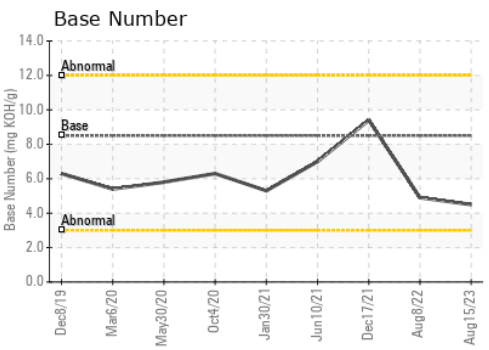
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	**12.4**	12.7	▲ 13.4

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0814845
Lab Number : 05930212
Unique Number : 10615483
Test Package : FLEET

Received : 21 Aug 2023
Diagnosed : 23 Aug 2023
Diagnostician : Jonathan Hester

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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Report Id: MABEDE [WUSCAR] 05930212 (Generated: 08/23/2023 13:27:40) Rev: 1

Contact/Location: MAINTENANCE ? - MABEDE