

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **91063** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 10W30 (10 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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		SBP0006574	SBP0005015	SBP0000191	
Sample Date		Client Info		02 Apr 2024	29 Nov 2023	14 Oct 2021	
Machine Age	mls	Client Info		589115	554632	334962	
Oil Age	mls	Client Info		369445	0	23423	
Oil Changed		Client Info		Changed	N/A	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	J	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	>80	12	7	15	
Chromium	ppm	ASTM D5185m	>5	<1	<1	1	
Nickel	ppm	ASTM D5185m	>2	0	<1	0	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>30	5	3	5	
Lead	ppm	ASTM D5185m	>30	0	0	0	
Copper	ppm	ASTM D5185m	>150	0	2	3	
Tin	ppm	ASTM D5185m	>5	<1	<1	<1	
Antimony	ppm	ASTM D5185m				0	
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	250	3	9	20	
Barium	ppm	ASTM D5185m	10	0	2	0	
Molybdenum	ppm	ASTM D5185m	100	59	69	4	
Manganese	ppm	ASTM D5185m		0	0	<1	
Magnesium	ppm	ASTM D5185m	450	935	1084	660	
Calcium	ppm	ASTM D5185m	3000	1097	1383	1278	
Phosphorus	ppm	ASTM D5185m	1150	1008	1168	691	
Zinc	ppm	ASTM D5185m	1350	1230	1477	795	
Sulfur	ppm	ASTM D5185m	4250	3228	5371	2236	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	4	5	11	
Sodium	ppm	ASTM D5185m		0	<1	1	
Potassium	ppm	ASTM D5185m	>20	<1	2	7	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	9.0	6.7	9.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	19.5	24.7	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	15.5	19.4	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.8	9.4	6.2	
0:20:30) Rev: 1					Submitted By: Joshua Kenney		

Report Id: SBTOMA [WUSCAR] 06151479 (Generated: 04/19/2024 20:20:30) Rev: 1

Submitted By: Joshua Kenney



3

30

2!

Abs/cm

10

14.

0.21 (mg KOH/g) 0.8 (mg KOH/g) 0.9 (mg KOH/g)

2.0

0.0

16 15 14 () 13 () 100-() 12 () 13 () 13 () 13 () 13 () 13 () 13 () 13 () 13 () 13 () 13 () 13 () 13 () 13 () 13 () 13 () 13 () 12 Abn Bas

> 8. 0ct14/21

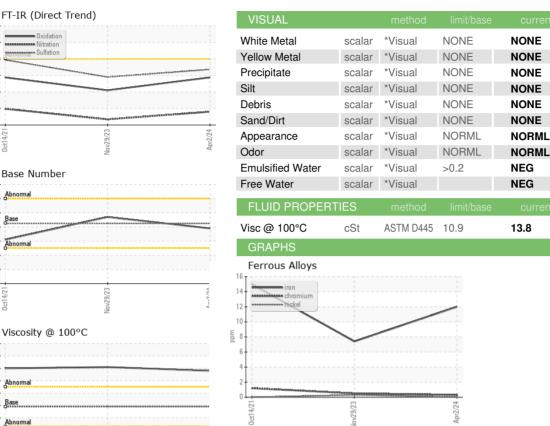
Abnorma

Vov29/23

£/21

Bas

OIL ANALYSIS REPORT



Non-ferrous Metals

lead

Oct14

16

15

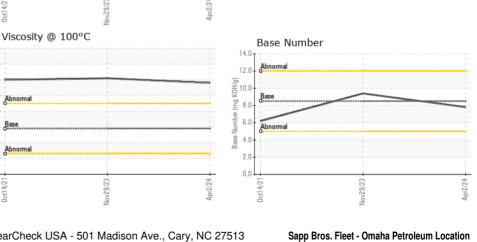
14

(100-c) 12 cst (100-c) 11 cst

10 Abnorma

Bas

0ct14/21



NONE

NONE

NONE

NONE

NORML

NEG

13.8

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

14.1

NONE

NONE

NONE

NONE

NONE

NONE

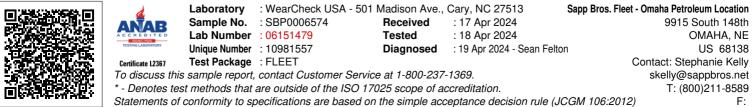
NORML

NORML

NEG

NEG

14.0



Report Id: SBTOMA [WUSCAR] 06151479 (Generated: 04/19/2024 20:20:30) Rev: 1

Submitted By: Joshua Kenney

Page 2 of 2