

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **91104** Component **Diesel Engine** Fluid **AMERIGUARD 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		SBP0007204	SBP0006536	SBP0002545
Sample Date		Client Info		12 May 2024	26 Feb 2024	24 Feb 2023
Machine Age	mls	Client Info		89451	79599	39530
Oil Age	mls	Client Info		9852	40069	1
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	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	7	12	21
Chromium	ppm	ASTM D5185m	>5	1	2	2
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>30	6	17	24
Lead	ppm	ASTM D5185m	>30	1	0	1
Copper	ppm	ASTM D5185m	>150	24	51	118
Tin	ppm	ASTM D5185m	>5	2	3	6
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	1	5
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		63	59	67
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m		1041	975	1167
Calcium	ppm	ASTM D5185m		1231	1050	1515
Phosphorus	ppm	ASTM D5185m		1158	1092	1085
Zinc	ppm	ASTM D5185m		1375	1340	1479
Sulfur	ppm	ASTM D5185m		3795	2663	3023
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm		>20	3	3	5
Sodium	ppm	ASTM D5185m		1	1	2
Potassium	ppm	ASTM D5185m		13	38	55
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.5	7.9	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	20.3	21.1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	17.1	18.2
Base Number (BN)	mg KOH/g	ASTM D2896		9.1	7.5	8.1



3

30

25 Abs/cm

10

10.0

(mg KOH/g) 6. Imbe 4. Base 2 (Feb24/23

Feb24

14 13

(100°C) 11. 11. 10. 10.

8. Feb24/23

Abnorma

Base Number

Viscosity @ 100°C

FT-IR (Direct Trend)

Oxidation

litratio Sulfation

60,2C.Ad

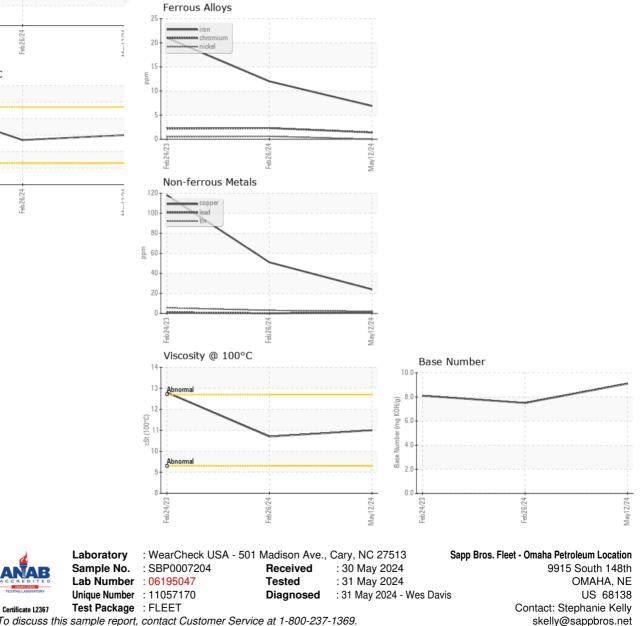
C/BCHa

Feb26/24

12/21/m

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
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		11.0	10.7	12.8
GRAPHS						



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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