

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **91074** 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.

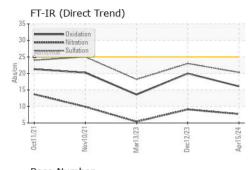
Fluid Condition

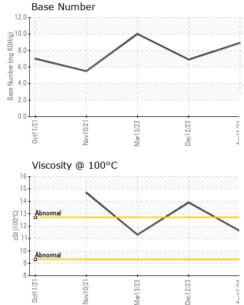
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		SBP0006573	SBP0006548	SBP0002546		
Sample Date		Client Info		15 Apr 2024	12 Dec 2023	13 Mar 2023		
Machine Age	mls	Client Info		503800	485081	329349		
Oil Age	mls	Client Info		18719	155732	2273		
Oil Changed		Client Info		Changed	Changed	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	13	8	2		
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>2	0	0	0		
Titanium	ppm	ASTM D5185m		0	0	<1		
Silver	ppm	ASTM D5185m	>3	0	0	0		
Aluminum	ppm	ASTM D5185m	>30	5	4	1		
Lead	ppm	ASTM D5185m	>30	0	0	0		
Copper	ppm	ASTM D5185m	>150	2	2	<1		
Tin	ppm	ASTM D5185m	>5	0	<1	<1		
Antimony	ppm	ASTM D5185m						
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		0	<1	2		
Barium	ppm	ASTM D5185m		0	0	0		
Molybdenum	ppm	ASTM D5185m		64	56	58		
Manganese	ppm	ASTM D5185m		<1	<1	1		
Magnesium	ppm	ASTM D5185m		1039	965	967		
Calcium	ppm	ASTM D5185m		1182	1025	1106		
Phosphorus	ppm	ASTM D5185m		1077	932	1028		
Zinc	ppm	ASTM D5185m		1290	1282	1236		
Sulfur	ppm	ASTM D5185m		3520	2588	3367		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>20	4	4	3		
Sodium	ppm	ASTM D5185m		7	<1	1		
Potassium	ppm	ASTM D5185m	>20	17	2	0		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	7.7	9.1	5.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	23.0	18.2		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	20.0	13.6		
Base Number (BN)	mg KOH/g	ASTM D2896		8.9	6.9	10.0		
3:53:52) Rev: 1					Submitted By: Joshua Kenney			



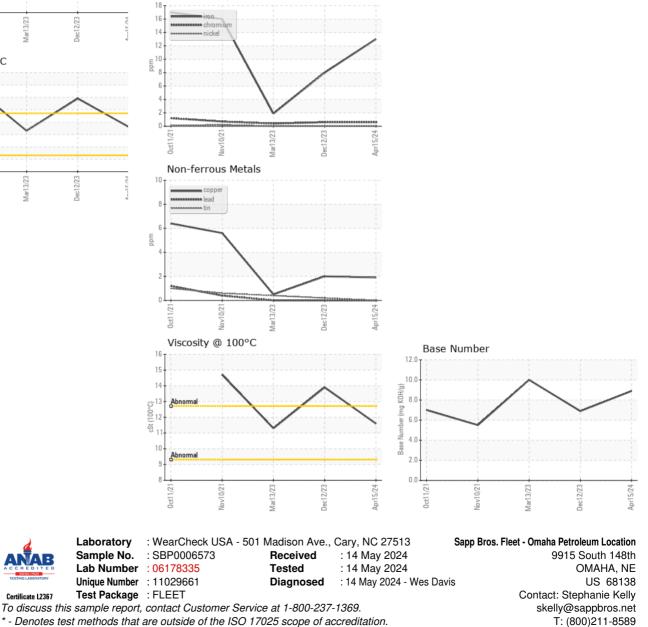
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPERT	ΓIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		11.6	13.9	11.3
CRADUS						

Ferrous Alloys



* - 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)

Certificate 12367

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