

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. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

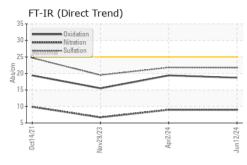
Fluid Condition

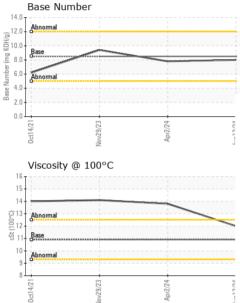
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007214	SBP0006574	SBP0005015
Sample Date		Client Info		12 Jun 2024	02 Apr 2024	29 Nov 2023
Machine Age	mls	Client Info		606394	589115	554632
Oil Age	mls	Client Info		17279	369445	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	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	10	12	7
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	5	5	3
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	2	0	2
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Antimony	ppm	ASTM D5185m				
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	7	3	9
Barium	ppm	ASTM D5185m	10	0	0	2
Molybdenum	ppm	ASTM D5185m	100	57	59	69
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	450	957	935	1084
Calcium	ppm	ASTM D5185m	3000	1158	1097	1383
Phosphorus	ppm	ASTM D5185m	1150	1053	1008	1168
Zinc	ppm	ASTM D5185m	1350	1303	1230	1477
Sulfur	ppm	ASTM D5185m	4250	3448	3228	5371
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm		>20	5	4	5
Sodium	ppm	ASTM D5185m		2	0	<1
Potassium	ppm	ASTM D5185m		6	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.2
	A I /	*ASTM D7624	>20	9.0	9.0	6.7
Nitration	Abs/cm					
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7415	>30	21.7	21.8	19.5
	Abs/.1mm		>30 limit/base	21.7 current	21.8 history1	19.5 history2
Sulfation	Abs/.1mm	*ASTM D7415				
Sulfation FLUID DEGRADA	Abs/.1mm	*ASTM D7415 method	limit/base	current	history1	history2



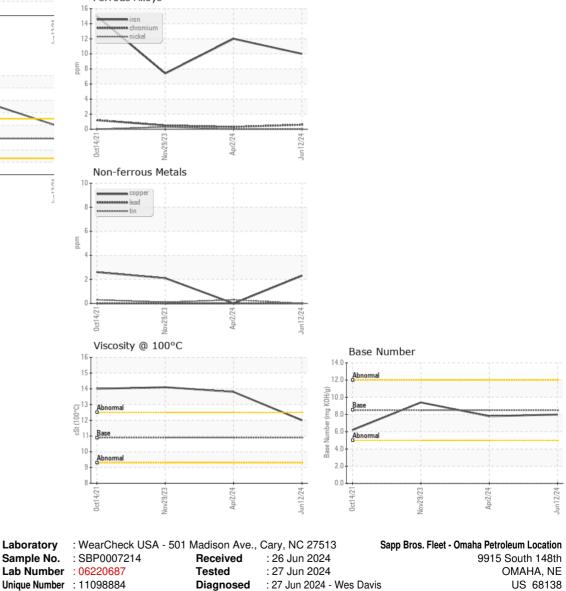
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	12.0	13.8	14.1

GRAPHS Ferrous Alloys





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.

Test Package : FLEET

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate 12367

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Page 2 of 2

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