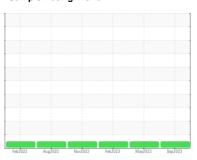


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 1094 Component Diesel Engine

AG 15W40 BULK (--- GAL)

AG	IJ	W4U	DULI	

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

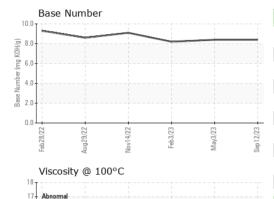
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Feb 2022	Aug2022 Nov2022	Feb 2023 May 2023	Sep2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0004662	SBP0001704	SBP0001694
Sample Date		Client Info		12 Sep 2023	03 May 2023	03 Feb 2023
Machine Age	mls	Client Info		289807	269833	246122
Oil Age	mls	Client Info		19974	23711	22338
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	V	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	>80	9	10	11
Chromium	ppm	ASTM D5185m	>5	<1	1	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	3	1	4
Lead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>150	6	9	10
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	6
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		67	60	60
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1133	1006	927
Calcium	ppm	ASTM D5185m		1225	1120	1130
Phosphorus	ppm	ASTM D5185m		1121	1040	992
Zinc	ppm	ASTM D5185m		1437	1323	1214
Sulfur	ppm	ASTM D5185m		3070	3437	2684
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	4	4
Sodium	ppm	ASTM D5185m		2	1	3
Potassium	ppm	ASTM D5185m	>20	5	2	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.7	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	20.5	20.1
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	16.4	15.6
Base Number (BN)	mg KOH/g	ASTM D2896		8.4	8.4	8.2
` '	0 0					



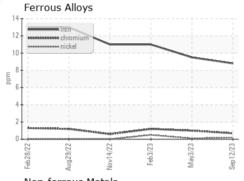
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OIL ANALYSIS REPORT

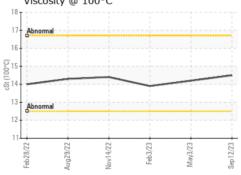


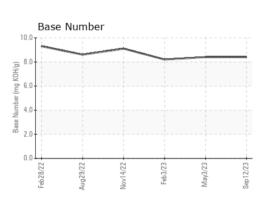
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method		history1	history2
Visc @ 100°C	cSt	ASTM D445	14.5	14.2	13.9



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 05968595

: SBP0004662

: 10675146

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Oct 2023

Diagnosed : 04 Oct 2023 Diagnostician : Wes Davis

US

Sapp Bros. Fleet - Ogallala Location

Test Package : FLEET

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Submitted By: DAN VAN ZEE

Contact: Service Manager

T:

F: