

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 3045 Component Diesel Engine Fluid

AG 15W40 (--- GAL)

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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

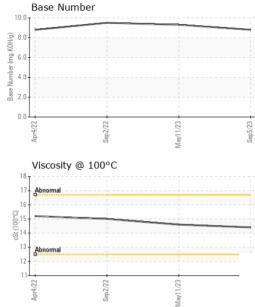
Fluid Condition

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

		Apr2023	2 Sep 2022	May2023 Si	p2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0004660	SBP0001708	SBP0001669
Sample Date		Client Info		05 Sep 2023	11 May 2023	02 Sep 2022
Machine Age	mls	Client Info		422720	412602	401809
Oil Age	mls	Client Info		10118	10793	10313
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION	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	16	28	17
Chromium	ppm	ASTM D5185m	>5	2	2	1
Nickel	ppm	ASTM D5185m	>2	<1	1	0
Titanium	ppm	ASTM D5185m		11	82	0
Silver	ppm	ASTM D5185m	>3	1	<1	0
Aluminum	ppm	ASTM D5185m	>30	4	5	2
Lead	ppm	ASTM D5185m	>30	0	1	<1
Copper	ppm	ASTM D5185m	>150	5	9	5
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		13	110	13
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		56	14	62
Manganese	ppm	ASTM D5185m		1	2	<1
Magnesium	ppm	ASTM D5185m		988	476	921
Calcium	ppm	ASTM D5185m		1316	1907	1321
Phosphorus	ppm	ASTM D5185m		1170	1012	1011
Zinc	ppm	ASTM D5185m		1472	1330	1267
Sulfur	ppm	ASTM D5185m		3623	4720	3492
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9	△ 32	9
Sodium	ppm	ASTM D5185m		4	22	25
Potassium	ppm	ASTM D5185m	>20	5	22	32
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.6
Nitration	Abs/cm	*ASTM D7624		8.3	8.6	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	19.7	26.5
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	> 25	16.0	14.6	24.4
Oxidation	AUS/. IIIIIII	A31WID/414	>23	16.2	14.0	24.4
Base Number (BN)	mg KOH/g	ASTM D2896	>25	8.8	9.3	9.5

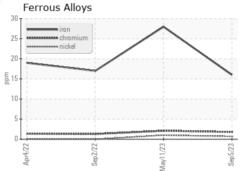


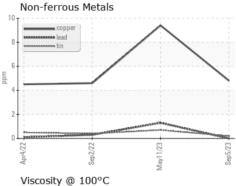
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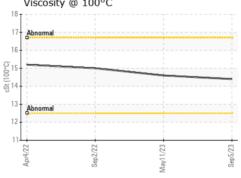


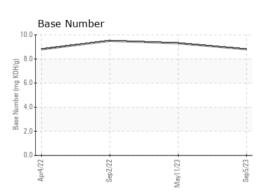
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 FROFEI	TIES	memou		HISTOLAL	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	14.4	14.6	15.0













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: SBP0004660 : 05968606 : 10675157

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

Diagnosed : 04 Oct 2023 Diagnostician : Wes Davis

Sapp Bros. Fleet - Ogallala Location

US Contact: Service Manager

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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