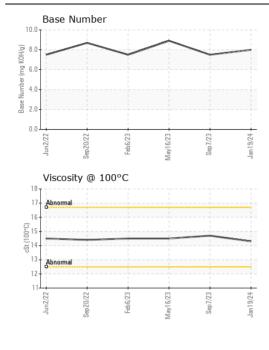
WEAR CONTAMINATION FLUID CONDITION

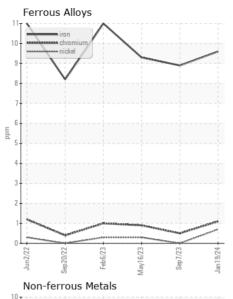
NORMAL NORMAL

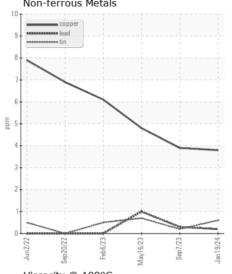
Machine Id 91086

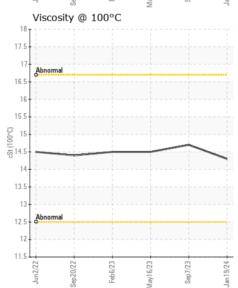
Component Diesel Engine

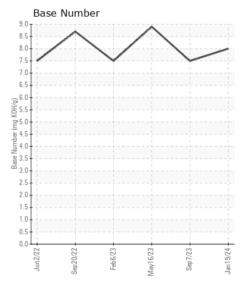
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		SBP0005913	SBP0004661	SBP0001709
	Sample Date		Client Info		19 Jan 2024	07 Sep 2023	16 May 202
	Machine Age	mls	Client Info		279364	258815	238586
	Oil Age	mls	Client Info		20549	20229	18214
	Filter Age	mls	Client Info		20549	20229	18214
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>80	10	9	9
WEAR	Chromium	ppm	ASTM D5185m		1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		- <1	0	<1
	Titanium	ppm	ASTM D5185m	72	<1	0	1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	4
	Lead	ppm	ASTM D5185m		<1	<1	1
	Copper	ppm	ASTM D5185m		4	4	5
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTABBINATION	0		AOTA DE LOS				
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	2	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	4	4
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method WC Method	>0.2	NEG	NEG	NEG
	Glycol Soot %	%	*ASTM D7844	. 0	NEG 0.4	NEG 0.6	NEG 0.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	9.6	9.1
	Sulfation	Abs/.1mm	*ASTM D7024		20.7	21.7	21.0
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		<1	0	2
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		65	67	63
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		1056	1136	1075
	Calcium	ppm	ASTM D5185m		1153	1224	1227
	Phosphorus	ppm	ASTM D5185m		1075	1126	1067
	Zinc	ppm	ASTM D5185m		1339	1442	1414
	Sulfur	ppm	ASTM D5185m	05	3140	3003	3689
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	18.0	17.0
	Base Number (BN)	ma I/OIII	ASTM D2896		8.0	7.5	8.9













Certificate L2367

Laboratory Sample No.

: SBP0005913 **Lab Number** : 06085275 Unique Number : 10872720

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed Test Package : FLEET

US : 12 Feb 2024 - Wes Davis Contact: Service Manager

Sapp Bros. Fleet - Ogallala Location

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)

: 09 Feb 2024

: 12 Feb 2024

T:

F: