

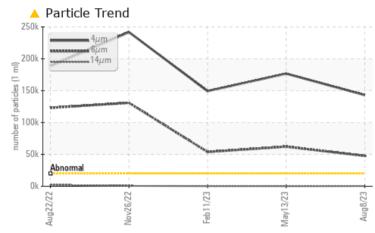
PROBLEM SUMMARY

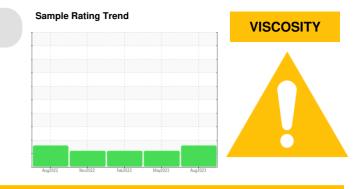
Area [16018160] Machine Id MAIN BREAK SHOULDER CIRCULAR SAW (S/N RX81DV132K4KS) Component

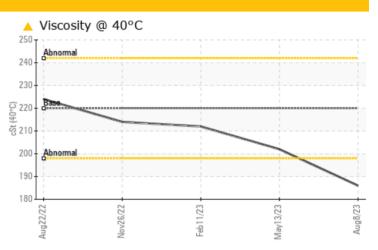
Gearbox

GEAR OIL (PAO) ISO 220 (2 LTR)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

THOBELINATION	LOTINE	.00210				
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>20000	<u> </u>	176811	149364
Particles >6µm		ASTM D7647	>5000	🔺 47696	62234	▲ 53855
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>	▲ 25/23/14	4 /23/15
Visc @ 40°C	cSt	ASTM D445	220	🔺 186	202	212

Customer Id: SMIMILMO Sample No.: USPR000644 Lab Number: 05922237 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

13 May 2023 Diag: Doug Bogart



Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

11 Feb 2023 Diag: Doug Bogart

Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

26 Nov 2022 Diag: Doug Bogart



Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

Area [16018160] MAIN BREAK SHOULDER CIRCULAR SAW (S/N RX81DV132K4KS) Component

Gearbox

Fluid GEAR OIL (PAO) ISO 220 (2 LTR)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

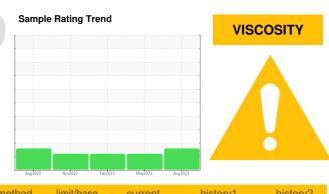
All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

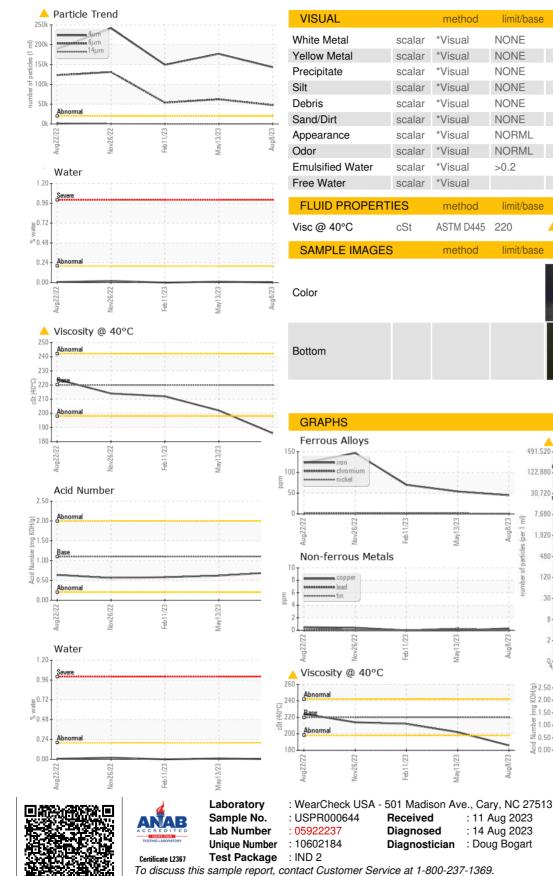
Fluid Condition

The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPR000644	USP241916	USPM23931
Sample Date		Client Info		08 Aug 2023	13 May 2023	11 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron		ASTM D5185m		45	54	70
Chromium	ppm	ASTM D5185m		45 <1	<1	<1
Nickel	ppm			0	<1	0
	ppm	ASTM D5185m	>15			
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	05	0	0	0
Aluminum	ppm	ASTM D5185m		2	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm	ASTM D5185m	>25	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	25	<1	2	0
Barium	ppm	ASTM D5185m	12	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		2	3	3
Magnesium	ppm	ASTM D5185m	25	0	3	<1
Calcium	ppm	ASTM D5185m	25	0	3	3
Phosphorus	ppm	ASTM D5185m	375	623	655	604
Zinc	ppm	ASTM D5185m	25	0	0	10
Sulfur	ppm	ASTM D5185m	4900	763	1040	962
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	3	5
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	2	2
Water	%	ASTM D6304	>0.2	0.002	0.011	0.00
ppm Water	ppm	ASTM D6304	>2000	19.7	119.0	0.00
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	143020	▲ 176811	149364
Particles >6µm		ASTM D7647	>5000	47696	▲ 62234	▲ 53855
Particles >14µm		ASTM D7647	>640	372	136	165
Particles >21µm		ASTM D7647	>160	31	5	21
Particles >38µm		ASTM D7647	>40	2	0	2
Particles >71µm		ASTM D7647	>10	1	0	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	4/23/16	▲ 25/23/14	▲ 24/23/15
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.10	0.70	0.62	0.58
	0 - 0					-





* - 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)

Aug 8/23

20 28

4406

19999

16 Cle

14

214

Feb11/23

38/

May13/23

22123 HWY 5

MILAN, MO

US 63556

Contact:

SMITHFIELD FOODS - SMIMIL

White Metal Yellow Metal	scalar	*Visual				
Vollow Motol		visuai	NONE	NONE	NONE	NONE
renow weta	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 PROPER	TIES	method	limit/base	current	history1	history
Visc @ 40°C	cSt	ASTM D445	220	186	202	212
SAMPLE IMAGE	S	method	limit/base	current	history1	history
Color						
Bottom						

30.72 7,680

1,920

480

120

30

(B/2.50 HOX 2.00

Acid Number (mg K 1.20 0.00 0.00

Acid Number

Vov26/22

Abnorm

Ba

Abno

Aug22/22

Aug8/23

Ja8/23

Aug8/23 -

: 11 Aug 2023

: 14 Aug 2023

(per 1

May13/23

May13/23

May13/23 -