

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				ATTENTION	ATTENTION	ATTENTION	
Visc @ 40°C	cSt	ASTM D445	32	<u> </u>	4 3.9	4 3.1	

Customer Id: ADVSED Sample No.: DJJ0019054 Lab Number: 05903724 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

03 Feb 2023 Diag: Don Baldridge



Oil and filter change at the time of sampling has been noted. Resample at the 11 component wear rates are normal. The amount and size of particulates preser There is no indication of any contamination in the oil. Viscosity of sample indic advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

23 Nov 2021 Diag: Don Baldridge



The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate 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.



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next service interval to monitor. nt in the system are acceptable. ates oil is within ISO 46 range,	AI



OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Area AMR-Sedalia Machine Id LIEBHERR LH50 124549 Component





history2

Hydraulic System

DIAGNOSIS

A Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Sample Number		Client Info		DJJ0019054	DJJ0018619	DJJ0015129
Sample Date		Client Info		14 Jul 2023	03 Feb 2023	13 May 2022
Machine Age	hrs	Client Info		3531	2654	1398
Oil Age	hrs	Client Info		500	2000	1000
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ATTENTION	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	<u>∖50</u>	15	36	19
Chromium	nnm	ASTM D5185m	>5	0	~1	0
Nickel	nnm	ASTM D5185m	>2	0	0	0
Titanium	nnm	ASTM D5185m	~	0	0	0
Silvor	nnm	ASTM D5185m		0	0	0
Aluminum	nnm	ASTM D5185m	<u>_</u> 2	-1	0	0
Load	ppm	AGTM D5105m	>1	0	-1	0
Connor	ppm	ACTM DE105m	>4	.1	~ 1	0
Copper	ppm	AGTM DE105m	>10	<1	3	2
	ррпп	ACTM DE105m	>2	U	0	0
Antimony	ppm	ASTM D5185m	>2			
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	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	25	0	2	0
Calcium	ppm	ASTM D5185m	200	174	696	1299
Phosphorus	ppm	ASTM D5185m	300	364	430	627
Zinc	ppm	ASTM D5185m	370	482	519	659
Sulfur	ppm	ASTM D5185m	2500	1377	2311	3124
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>17	0	1	0
Sodium	ppm	ASTM D5185m		<1	1	2
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	8064	10916	6913
Particles >6µm		ASTM D7647	>5000	1937	1438	1055
Particles >14µm		ASTM D7647	>640	84	98	43
Particles >21µm		ASTM D7647	>160	17	20	8
Particles >38µm		ASTM D7647	>40	0	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/18/14	21/18/14	20/17/13
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/a	ASTM D8045	0.57	0.54	0.71	1.223
	0 - 0					



OIL ANALYSIS REPORT







		mothod	limit/booo	ourropt	historyd	history?
VISUAL		methou	IIIIII/Dase	current	TISLOTY I	TIISTOLAS
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	LIGHT
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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	46.6	4 3.9	▲ 43.1
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						
				15		

Bottom



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

Certificate L2367

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