

OIL ANALYSIS REPORT

Sample Rating Trend

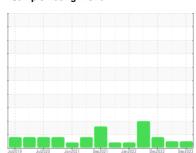
Fermentation

Machine Id

Lightnin FHG52AB01 Seed Fermentor, Agitator

Gearbox

JAX FGG-AW ISO 220 (11 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Woor

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Jul2019	Jul2020 Jun2021	Sep2021 Jan2022 Dec2022	Sep 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843012	WC0753871	WC0741059
Sample Date		Client Info		27 Sep 2023	01 Feb 2023	27 Dec 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	69	56	138
Chromium	ppm	ASTM D5185m	>15	0	0	<1
Nickel	ppm	ASTM D5185m	>15	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	4
Lead	ppm	ASTM D5185m	>100	<1	0	<1
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	<1
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		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		2	<1	3
Calcium	ppm	ASTM D5185m		335	262	838
Phosphorus	ppm	ASTM D5185m		483	434	448
Zinc	ppm	ASTM D5185m		10	2	15
Sulfur	ppm	ASTM D5185m		1028	859	1182
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	2	5
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.2	0.001	0.008	0.003
ppm Water	ppm	ASTM D6304	>2000	13.8	80.1	39.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>320000	107548	96650	150857
Particles >6µm		ASTM D7647	>20000	15875	5898	△ 40561
Particles >14µm		ASTM D7647	>640	66	17	88
Particles >21μm		ASTM D7647	>160	12	1	8
Particles >38µm		ASTM D7647	>40	1	0	0
Particles >71μm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>25/21/16	24/21/13	24/20/11	<u>4</u> 24/23/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Asid Number (ANI)	I/OLI/-	ACTM DODAE		0.40	0.40	0.45

0.42

Acid Number (AN)

mg KOH/g ASTM D8045

0.42

0.45



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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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