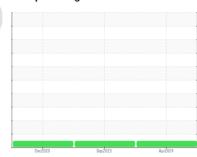


OIL ANALYSIS REPORT

Sample Rating Trend







M-221
Component
Gearbox
Fluid
MOBIL SHC 632 (--- GAL)

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Machine Id

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887499	WC0747964	WC0453559
Sample Date		Client Info		01 Apr 2024	27 Sep 2023	29 Dec 2020
Machine Age	hrs	Client Info		90106	85663	61000
Oil Age	hrs	Client Info		7800	20000	8000
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	4	5	3
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	0	<1	0
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>200	0	0	0
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m	>5			0
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		2	0	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	1	0
Calcium	ppm	ASTM D5185m		0	<1	0
Phosphorus	ppm	ASTM D5185m		469	503	458
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		38	73	73
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	24	23	20
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.62

Acid Number (AN)

mg KOH/g ASTM D8045

0.57

0.636



OIL ANALYSIS REPORT







Laboratory

Sample No. Lab Number : 06141521

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0887499

Unique Number: 10966329

Received Tested Diagnosed

: 08 Apr 2024 : 11 Apr 2024 : 11 Apr 2024 - Jonathan Hester

KB BIOENERGY INC 2677 RIVERVIEW RD AKRON, OH US 44313

Certificate 12367

Test Package : MOB 2 (Additional Tests: TBN)

Contact: ERIC FOX ericf@kbbioenergy.com;jwatson@wearcheckusa.com T: (330)864-2621

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) F: (330)864-7023 Contact/Location: ERIC FOX - KBBAKR