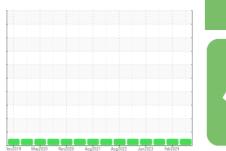


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

ME-031143C EXPANDER

Component Gearbox

USPI FG GEAR 320 (--- GAL)

DIA		

Recommendation

Resample at the next service interval to monitor.

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.

		Vov2019 M	ay2020 Nov2020 Aug	Ž021 AugŽ022 JunŽ023	Feb 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM37685	USPM30245	USPM29171
Sample Date		Client Info		10 Jun 2024	21 Feb 2024	08 Aug 2023
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	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	9	11	10
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>100	<1	1	0
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>25	<1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		0	1	0
Phosphorus	ppm	ASTM D5185m		605	652	536
Zinc	ppm	ASTM D5185m		1	15	1
Sulfur	ppm	ASTM D5185m		605	630	661
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	10	5	1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	1	1
Water	%	ASTM D6304	>0.2	0.003	0.005	0.002
ppm Water	ppm	ASTM D6304	>2000	33	55	20.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	367	2061	1574
Particles >6µm		ASTM D7647	>5000	163	724	131
Particles >14μm		ASTM D7647	>640	30	39	10
Particles >21µm		ASTM D7647	>160	11	10	4
Particles >38μm		ASTM D7647	>40	1	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	16/15/12	18/17/12	18/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.69	0.59	0.34



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

: USPM37685 : 06209266 Unique Number : 11076727 Test Package : IND 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Jun 2024

Tested : 16 Jun 2024 Diagnosed : 16 Jun 2024 - Doug Bogart

Contact: robyn wilbanks robyn_wilbanks@cargill.com

> T: (770)531-4736 F: (770)538-6251

* - 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)

Report Id: CARGAI [WUSCAR] 06209266 (Generated: 06/16/2024 16:10:55) Rev: 1

US 30501

862 WEST RIDGE ROAD

GAINESVILLE, GA