

GREASE ANALYSIS

Area [7205201] IAP FAN TYPE B E-SF54101 (S/N 34452) Component

Opposite Drive End Grease

MOBIL MOBILITH SHC SERIES 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Analytical Ferrography: Results indicate normal operation, with typical amounts of ferrous wear and contamination present.

A Wear

Chromium and iron ppm levels are noted. All other component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

Grease Condition

The condition of the grease is acceptable for the time in service. The AN level is acceptable for this fluid. Linear Sweep Voltammetry (RULER - ASTM D6971) testing indicates normal levels of antioxidants present in the oil.

Contaminants

There is no indication of any contamination in the grease.



SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0039396	RP0039401	
Sample Date		Client Info		02 Nov 2023	02 Nov 2023	
Machine Age	mths	Client Info		4	4	
Grease Age	mths	Client Info		0	0	
Grease Serviced		Client Info		N/A	N/A	
Sample Status				ATTENTION	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	103		
Iron	ppm	ASTM D5185m	>250	A 2777	57	
Chromium	ppm	ASTM D5185m	>10	1 4	<1	
Nickel	ppm	ASTM D5185m	>5	3	2	
Cadmium	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		<1	1	
Vanadium	ppm	ASTM D5185m		0	<1	
Lead	ppm	ASTM D5185m	>25	<1	0	
Copper	ppm	ASTM D5185m	>75	1	26	
Tin	ppm	ASTM D5185m	>5	<1	<1	
Silver	ppm	ASTM D5185m	>5	0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		245	230	
Magnesium	ppm	ASTM D5185m		2	2	
Manganese	ppm	ASTM D5185m		9	<1	
Molybdenum	ppm	ASTM D5185m		1	5	
Phosphorus	ppm	ASTM D5185m		1959	1880	
Zinc	ppm	ASTM D5185m		2910	2908	
THICKENER/SOA	νP	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m		3	2	
Barium	ppm	ASTM D5185m		2	6	
Calcium	ppm	ASTM D5185m		13	18	
Sodium	ppm	ASTM D5185m		31	40	

Lithium	ppm	ASTM D5185m		3240	2513	
CONTAMINANTS		method				history2
Silicon	ppm	ASTM D5185m	>150	15	78	
Potassium	ppm	ASTM D5185m		10	13	
Water	%	ASTM D6304	>0.1	0.060		
nom Water	nnm	ASTM D6304	>1000	610		

GREASE CONDITION		method			history2
Grease Color		*Visual		Burgundy	
Texture		*In-house		Short fiber	
NLGI Consistency	NLGI Scale	*SKF Method		2-3	
Anti-Oxidant 1	%	ASTM D6971	<25%	33	
Anti-Oxidant 2	%	ASTM D6971	<25%	81	
Anti-Oxidant 3	%	ASTM D6971	<25%	36	



GREASE ANALYSIS



Contact/Location: Service Manager - JCIDOD



FERROGRAPHY REPORT

[7205201] Machine Id IAP FAN TYPE B E-SF54101 (S/N 34452)

Component Opposite Drive End Grease Fluid

MOBIL MOBILITH SHC SERIES 220 (--- GAL)



Magn: 100x Illum: RW



FERROGRAPHY		method		history2
Ferrous Rubbing	Scale 0-10	*ASTM D7684	2	
Ferrous Sliding	Scale 0-10	*ASTM D7684		
Ferrous Cutting	Scale 0-10	*ASTM D7684		
Ferrous Rolling	Scale 0-10	*ASTM D7684		
Ferrous Break-in	Scale 0-10	*ASTM D7684		
Ferrous Spheres	Scale 0-10	*ASTM D7684		
Ferrous Black Oxides	Scale 0-10	*ASTM D7684		
Ferrous Red Oxides	Scale 0-10	*ASTM D7684		
Ferrous Corrosive	Scale 0-10	*ASTM D7684		
Ferrous Other	Scale 0-10	*ASTM D7684		
Nonferrous Rubbing	Scale 0-10	*ASTM D7684		
Nonferrous Sliding	Scale 0-10	*ASTM D7684		
Nonferrous Cutting	Scale 0-10	*ASTM D7684		
Nonferrous Rolling	Scale 0-10	*ASTM D7684		
Nonferrous Other	Scale 0-10	*ASTM D7684		
Carbonaceous Material	Scale 0-10	*ASTM D7684		
Lubricant Degradation	Scale 0-10	*ASTM D7684		
Sand/Dirt	Scale 0-10	ASTM D7684		
Fibres	Scale 0-10	*ASTM D7684		
Spheres	Scale 0-10	*ASTM D7684		
Other	Scale 0-10	*ASTM D7684	2	



Magn: 500x Illum: RW



WEAR

Chromium and iron ppm levels are noted. All other component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system. This page left intentionally blank