

## **OIL ANALYSIS REPORT**

Sample Rating Trend



### Area NFDM PT12PP04BB01 Component **Bearing**

Fluid

MOBIL SHC 626 (--- GAL)

#### 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.

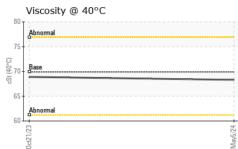
### Fluid Condition

The condition of the oil is acceptable for the time in service.

Water         WC Method         >2         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >20         <1         <1            Chromium         ppm         ASTM D5185m         >20         <1         0            Nickel         ppm         ASTM D5185m         >20         <1         0            Silver         ppm         ASTM D5185m         <20         <1         <1            Aluminum         ppm         ASTM D5185m         >20         2         1            Lead         ppm         ASTM D5185m         >20         2         1            Copper         ppm         ASTM D5185m         >20         1         1            Yanadium         ppm         ASTM D5185m         >20         1         0            Vanadium         ppm         ASTM D5185m         <1         0             Vanadium         ppm         ASTM D5185m         <1         0 <th>Sample Date Machine Age Oil Age</th> <th>IATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	Sample Date Machine Age Oil Age	IATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         0         0            Oil Age         hrs         Client Info         N/A         N/A         N/A            Sample Status         Image         Client Info         N/A         N/A         N/A            CONTAMINATION         method         Imit/base         current         history1         history1           Water         WC Method         >2         NEG         NEG            WEAR METALS         method         Imit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >20         <1         0            Nickel         ppm         ASTM D5185m         >20         <1         0            Aluminum         ppm         ASTM D5185m         >20         <1         0            Additionum         ppm         ASTM D5185m         >20         21         1            Aduminum         ppm         ASTM D5185m         >20         1         0            Vanadium         ppm         ASTM D5185m         >20         1	Machine Age Oil Age		Client Info		WC0934865	WC0871163	
Oil Age         hrs         Client Info         0         0            Oil Changed         Client Info         N/A         N/A         N/A            Sample Status         Imit/base         current         NoRMAL         NORMAL            CONTAMINATION         method         limit/base         current         history1         history1           Water         WC Method         >2         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >20         <1         1            Nickel         ppm         ASTM D5185m         >20         <1         0            Nickel         ppm         ASTM D5185m         <1         0             Aluminum         ppm         ASTM D5185m         >20         <1         1            Copper         ppm         ASTM D5185m         >20         1         1            Cadmium         ppm         ASTM D5185m         >20         1         0	Oil Age		Client Info		05 May 2024	21 Oct 2023	
Oil Changed       Client Info       N/A       N/A       N/A          Sample Status       NORMAL       NORMAL       NORMAL       NORMAL          CONTAMINATION       method       limit/base       current       history1       history1         Water       WC Method       >2       NEG       NEG          WEAR METALS       method       limit/base       current       history1       history1         Iron       ppm       ASTM D5185m       >20       <1	-	hrs	Client Info		0	0	
Sample Status         Image Status         NORMAL         NORMAL            CONTAMINATION         method         limit/base         current         history1         history1           Water         WC Method         >2         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >20         <1         <1            Chromium         ppm         ASTM D5185m         >20         <1         0            Nickel         ppm         ASTM D5185m         >20         <1         0            Aluminum         ppm         ASTM D5185m         <20         2         1            Lead         ppm         ASTM D5185m         >20         1         1            Copper         ppm         ASTM D5185m         >20         1         1            Cadmium         ppm         ASTM D5185m         >20         1         0            Cadmium         ppm         ASTM D5185m         <0         0		hrs	Client Info		0	0	
CONTAMINATION         method         limit/base         current         history1         history1           Water         WC Method         >2         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >20         <1         <1            Chromium         ppm         ASTM D5185m         >20         <1         0            Nickel         ppm         ASTM D5185m         >20         <1         0            Silver         ppm         ASTM D5185m         >20         2         1            Aluminum         ppm         ASTM D5185m         >20         2         1            Lead         ppm         ASTM D5185m         >20         1         1            Cadmium         ppm         ASTM D5185m         >20         1         1            Vanadium         ppm         ASTM D5185m         >20         1         0            ADDTIVES         method         limit/base         current         history1	Oil Changed		Client Info		N/A	N/A	
Water         WC Method         >2         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >20         <1         <1            Chromium         ppm         ASTM D5185m         >20         <1         0            Nickel         ppm         ASTM D5185m         >20         <1         0            Titanium         ppm         ASTM D5185m         >20         <1         0            Aluminum         ppm         ASTM D5185m         >20         2         1            Lead         ppm         ASTM D5185m         >20         1         1            Copper         ppm         ASTM D5185m         >20         1         1            Cadmium         ppm         ASTM D5185m         >20         1         0            ADDITIVES         method         imit/base         current         history1         history1           Maganese         ppm         ASTM D5185m         0         0	Sample Status				NORMAL	NORMAL	
WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >20         <1         <1            Chromium         ppm         ASTM D5185m         >20         <1         0            Nickel         ppm         ASTM D5185m         >20         <1         0            Titanium         ppm         ASTM D5185m         >20         <1         0            Aluminum         ppm         ASTM D5185m         >20         2         1            Lead         ppm         ASTM D5185m         >20         2         1            Copper         ppm         ASTM D5185m         >20         1         1            Cadmium         ppm         ASTM D5185m         >20         1         0            ADDITIVES         method         limit/base         current         history1         history1           Maganese         ppm         ASTM D5185m         <0         0             Magnesium         ppm         ASTM D5185m         <1	CONTAMINATION	N	method	limit/base	current	history1	history2
Iron         ppm         ASTM D5185m         >20         <1	Water		WC Method	>2	NEG	NEG	
Chromium         ppm         ASTM D5185m         >20         <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185m         >20         <1	Iron	ppm	ASTM D5185m	>20	<1	<1	
Titanum         ppm         ASTM D5185m         <1	Chromium	ppm	ASTM D5185m	>20	<1	0	
Silver         ppm         ASTM D5185m         <1	Nickel	ppm	ASTM D5185m	>20	<1	0	
Aluminum         ppm         ASTM D5185m         >20         2         1            Lead         ppm         ASTM D5185m         >20         <1         <1            Copper         ppm         ASTM D5185m         >20         1         1            Tin         ppm         ASTM D5185m         >20         <1         0            Vanadium         ppm         ASTM D5185m         <20         <1         0            Vanadium         ppm         ASTM D5185m         <20         <1         0            Cadmium         ppm         ASTM D5185m         <1         0             ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         0            Malganese         ppm         ASTM D5185m         0         0            Manganese         ppm         ASTM D5185m         <1         0            Calcium         ppm         ASTM D5185m         <1         0            S	Titanium	ppm	ASTM D5185m		<1	<1	
Aluminum         ppm         ASTM D5185m         >20         2         1            Lead         ppm         ASTM D5185m         >20         <1         <1            Copper         ppm         ASTM D5185m         >20         1         1            Tin         ppm         ASTM D5185m         >20         <1         0            Vanadium         ppm         ASTM D5185m         >20         <1         0            Vanadium         ppm         ASTM D5185m         >20         <1         0            Cadmium         ppm         ASTM D5185m         <1         <1             ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Maganesium         ppm         ASTM D5185m         <1         0            Magnesium         ppm         ASTM D5185m         <1         0	Silver	ppm	ASTM D5185m		<1	0	
Lead         ppm         ASTM D5185m         >20         <1	Aluminum		ASTM D5185m	>20	2	1	
Copper         ppm         ASTM D5185m         >20         1         1            Tin         ppm         ASTM D5185m         >20         <1         0            Vanadium         ppm         ASTM D5185m         <1         0            Cadmium         ppm         ASTM D5185m         <1         0            Cadmium         ppm         ASTM D5185m         <1         <1            ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         0             Malganese         ppm         ASTM D5185m         <1         0             Manganese         ppm         ASTM D5185m         <1         0             Magnesium         ppm         ASTM D5185m         <1         0	Lead		ASTM D5185m	>20	<1	<1	
Tin         ppm         ASTM D5185m         >20         <1	Copper		ASTM D5185m	>20	1	1	
Vanadium         ppm         ASTM D5185m         <1			ASTM D5185m	>20	<1	0	
Cadmium         ppm         ASTM D5185m         <1	Vanadium		ASTM D5185m		<1	0	
Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m         <1         0            Manganese         ppm         ASTM D5185m         <1         0            Magnesium         ppm         ASTM D5185m         <1         0            Calcium         ppm         ASTM D5185m         <1         0            Calcium         ppm         ASTM D5185m         <1         0            Phosphorus         ppm         ASTM D5185m         <1         0            Zinc         ppm         ASTM D5185m         1         11            Sulfur         ppm         ASTM D5185m         0         0            Sulfur         ppm         ASTM D5185m         >15         1         <1            Sodium         ppm         ASTM D5185m         >15         1         <1            Sodium         ppm         ASTM D5185m         >20         1         1	Cadmium				<1	<1	
Barium         ppm         ASTM D5185m         0         0            Molybdenum         ppm         ASTM D5185m         <1         0            Manganese         ppm         ASTM D5185m         <1         0            Magnesium         ppm         ASTM D5185m         <1         0            Calcium         ppm         ASTM D5185m         <1         0            Calcium         ppm         ASTM D5185m         <1         0            Phosphorus         ppm         ASTM D5185m         448         474            Zinc         ppm         ASTM D5185m         1         11            Sulfur         ppm         ASTM D5185m         0         0            Silicon         ppm         ASTM D5185m<>15         1         <1            Sodium         ppm         ASTM D5185m<>20         0         0	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         <1	Boron	ppm	ASTM D5185m		0	0	
Magnesse         ppm         ASTM D5185m         <1	Barium	ppm	ASTM D5185m		0	0	
Magnesium         ppm         ASTM D5185m         <1	Molybdenum	ppm	ASTM D5185m		<1	0	
Calcium         ppm         ASTM D5185m         4         <1	Manganese	ppm	ASTM D5185m		<1	0	
Phosphorus         ppm         ASTM D5185m         448         474            Zinc         ppm         ASTM D5185m         1         11         11          11         11          11         11          11	Magnesium	ppm	ASTM D5185m		<1	0	
Zinc         ppm         ASTM D5185m         1         11            Sulfur         ppm         ASTM D5185m         0         0            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         1         <1	Calcium	ppm	ASTM D5185m		4	<1	
Sulfur         ppm         ASTM D5185m         0         0            CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >15         1         <1            Sodium         ppm         ASTM D5185m         0         0            Potassium         ppm         ASTM D5185m         >20         1         1	Phosphorus	ppm	ASTM D5185m		448	474	
CONTAMINANTSmethodlimit/basecurrenthistory1history1SiliconppmASTM D5185m>151<1SodiumppmASTM D5185m00PotassiumppmASTM D5185m>2011	Zinc	ppm	ASTM D5185m		1	11	
Silicon         ppm         ASTM D5185m         >15         1         <1	Sulfur	ppm	ASTM D5185m		0	0	
Sodium         ppm         ASTM D5185m         0         0            Potassium         ppm         ASTM D5185m         >20         1         1			method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         1         1	CONTAMINANTS	ppm	ASTM D5185m	>15	1	<1	
		ppm	ASTM D5185m		0	0	
VISUAL method limit/base current history1 history	Silicon					1	
	Silicon Sodium	ppm	ASTM D5185m	>20	1		
White Metal scalar *Visual NONE NONE NONE	Silicon Sodium Potassium	ppm					history2
Yellow Metal scalar *Visual NONE NONE NONE	Silicon Sodium Potassium VISUAL		method	limit/base	current	history1	· · · · · ·
Precipitate scalar *Visual NONE NONE NONE	Silicon Sodium Potassium VISUAL White Metal	scalar	method *Visual	limit/base NONE	current NONE	history1 NONE	
Silt scalar *Visual NONE NONE NONE	Silicon Sodium Potassium VISUAL White Metal Yellow Metal	scalar scalar	method *Visual *Visual	limit/base NONE NONE	current NONE NONE	history1 NONE NONE	
Debris scalar *Visual NONE LIGHT NONE	Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	scalar scalar scalar	method *Visual *Visual *Visual	limit/base NONE NONE NONE	current NONE NONE NONE	history1 NONE NONE NONE	
Sand/Dirt scalar *Visual NONE NONE NONE	Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE	current NONE NONE NONE NONE	history1 NONE NONE NONE NONE	
Appearance scalar *Visual NORML NORML NORML	Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE	OUTTENT NONE NONE NONE LIGHT	history1 NONE NONE NONE NONE NONE	
Odor scalar *Visual NORML NORML NORML	Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE	Current NONE NONE NONE LIGHT NONE	history1 NONE NONE NONE NONE NONE	   
Emulsified Water scalar *Visual >2 NEG NEG	Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE NORE	Current NONE NONE NONE LIGHT NONE NORML	history1 NONE NONE NONE NONE NONE NONE	
Free Water scalar *Visual NEG NEG	Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NORE NORML NORML	Current NONE NONE NONE LIGHT NONE NORML NORML	history1 NONE NONE NONE NONE NONE NORML NORML	
:16:27) Rev: 1 Submitted By: MICHAEL VILLASEN	Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar	method *Visual	limit/base NONE NONE NONE NONE NORE NORML NORML	Current NONE NONE NONE LIGHT NONE NORML NORML NEG	history1 NONE NONE NONE NONE NONE NORML NORML NEG	



# **OIL ANALYSIS REPORT**



FLUID PROPERT	TIES metho	d limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D4	445 69.9	68.3	68.9	
SAMPLE IMAGES	S metho	d limit/base	current	history1	history2
Color			a.	no image	no image
Bottom				no image	no image
GRAPHS					
Ferrous Alloys	s	May5/24 1			
Abnormal           78         Abnormal           74         Abnormal           72         Base           66         66           64         66           64         Commal           60         Example           Example         Example		May5/24			
: WearCheck USA - 50 : WC0934865 : 06184811 : 11036137 : IND 1 contact Customer Serv	Received Tested Diagnosed	Cary, NC 27513 : 20 May 2024 : 21 May 2024 : 22 May 2024 - Se		L	1302 1ST A GREELEY, C IS 80631-59 ct: ERIC KLIN

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.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (970)347-5190

Certificate L2367

Submitted By: MICHAEL VILLASENOR

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Page 2 of 2