

## **OIL ANALYSIS REPORT**

# Area [604063006 SDR] **COLD WATER PUMP 1 (S/N 20075332)**

Component **Primary Pump** 

MOBIL DTE OIL HVY MEDIUM (--- 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

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



Sample Rating Trend

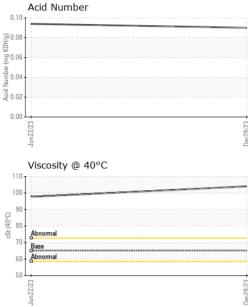


SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0854253	WC0605520	
Sample Date		Client Info		28 Dec 2023	22 Jun 2023	
Machine Age	mls	Client Info		0	0	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ATTENTION	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	0	0	
Chromium	ppm	ASTM D5185m	>5	0	0	
Nickel	ppm	ASTM D5185m	>5	0	0	
Titanium	ppm	ASTM D5185m	>3	0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>7	0	1	
Lead	ppm	ASTM D5185m	>12	0	0	
Copper	ppm	ASTM D5185m	>30	0	0	
Tin	ppm	ASTM D5185m	>9	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		0	<1	
Calcium	ppm	ASTM D5185m		0	0	
Phosphorus	ppm	ASTM D5185m		10	12	
Zinc	ppm	ASTM D5185m		0	<1	
Sulfur	ppm	ASTM D5185m		531	692	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	0	<1	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	<1	<1	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.09	0.094	



## **OIL ANALYSIS REPORT**

VISUAL



	DNE	NONE	NONE	IONE	*Visual	scalar	White Metal	<u>ا</u> ا		
	ONE	NONE	NONE	IONE	*Visual	scalar	Yellow Metal	N		
	DNE	NONE	NONE	IONE	*Visual	scalar	Precipitate	F		
	DNE	NONE	NONE	IONE	*Visual	scalar	Silt			
		NONE	NONE	IONE	*Visual	scalar	Debris			
		NONE								
			NONE	IONE	*Visual	scalar	Sand/Dirt			
		NORML	NORML	IORML	*Visual	scalar	Appearance	S	c28/2	
	ORML	NORML	NORML	IORML	*Visual	scalar	Odor	- C	G	
	EG	NEG	NEG	.1	*Visual	scalar	Emulsified Water	E		
	EG	NEG	NEG		*Visual	scalar	Free Water	ngen F		
history2			current	limit/base	method		FLUID PROPER			
		▲ 97.7	104	5.1		cSt	Visc @ 40°C			
history2	nistory1	history	current	limit/base	method	ËS	SAMPLE IMAG	-		
no image	n		•				Color	Dec28/23	Dec28/23 +	
no image	n						Bottom	E		
							GRAPHS			
							Ferrous Alloys			
								10		
							iron	8		
							- nickel	E 6		
							-	udd 4		
								2		
								0		
				8/23			un22/23			
				Dec28/23			Jun2			
						ale	Non-ferrous Met			
								10		
							copper	8		
							tin	_ 6		
								udd 4		
								2		
								0		
				3/23			2/23	0		
				Dec28/23			Jun22/23			
						_	Viscosity @ 40°			
		ber	Acid Numbe				, -	110		
				■ ( <sup>B</sup> )			1	100		
			•	9 0.08 B						
				E 0.06 - تة			Abnormal	09 cSt (40°C) 08 cSt (40°C) 07 cSt (40°C)		
				g 0.04				충 70		
			•	≥ 0.02 -			T	60		
			53	0.00				50		
			n22/4	c28/2			n22//			
			η	De			٦L			
IOCOLAT OAK PARI HICAGO, I US 6070							WearCheck USA			
0			Jun22/23				Abnorma 	60		



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Contact/Location: TONY FIORE - MARSCHI