

## **OIL ANALYSIS REPORT**

# IRIG-PRM-PMUD-0302 - 2MP IRIG-PRM-PMUD-0302 #2 MUD PUMP

Component Pump

Fluid MOBIL SHC 634 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

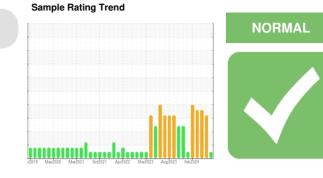
All component wear rates are normal.

#### 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.



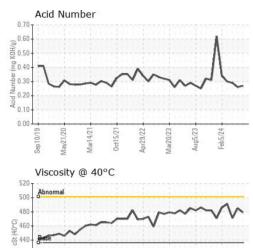
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		HLC0003384	HLC0003063	HLC0003031
Sample Date		Client Info		15 May 2024	11 Apr 2024	25 Mar 2024
Machine Age	hrs	Client Info		19879	19565	19445
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Filtered
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water	•	WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	32	52	59
Chromium	ppm	ASTM D5185m		1	2	2
Nickel	ppm	ASTM D5185m		0	0	0
				1	2	1
Titanium	ppm	ASTM D5185m			2	
Silver	ppm	ASTM D5185m	>3	0	÷	0
Aluminum	ppm	ASTM D5185m		21	936	41
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		4	6	4
Tin	ppm	ASTM D5185m	>9	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	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		14	21	25
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	1	0
Magnesium	ppm	ASTM D5185m		3	7	6
Calcium	ppm	ASTM D5185m		15	24	25
Phosphorus	ppm	ASTM D5185m		417	434	450
Zinc	ppm	ASTM D5185m		5	0	0
Sulfur	ppm	ASTM D5185m		301	64	141
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	57	<b>9</b> 7	<b>1</b> 07
Sodium	ppm	ASTM D5185m		29	44	56
Potassium	ppm	ASTM D5185m	>20	24	37	43
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>320000		223033	193355
Particles >6µm		ASTM D7647	>40000		▲ 103022	🔺 113461
Particles >14µm		ASTM D7647	>640		640	<b>9</b> 64
Particles >21µm		ASTM D7647	>160		85	26
Particles >38μm		ASTM D7647	>40		4	3
Particles >71µm					0	2
Oil Cleanliness		ISO 4406 (c)	>25/22/16		▲ 25/24/16	_ <u> </u>
		. /				
FLUI <u>D DEGRADA</u>		method		current	historv1	historv2
FLUID DEGRADA Acid Number (AN)	MTION mg KOH/g	method ASTM D8045	limit/base	current <b>0.27</b>	history1 0.26	history2 0.29

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Sep10/19 Mav21/20 Mar14/21

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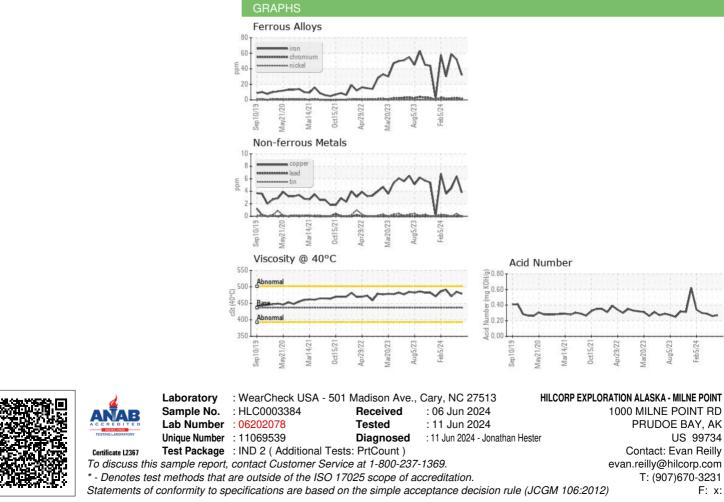


Aug5/23

Mar20/23

00/8/07

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	436.4	479	485	471
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color					· Q.	
Bottom						



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