

OIL ANALYSIS REPORT

Area **IRIG** [7008206]

ACCUMULATOR RESERVOIR IRIG-ACU-ACUM-2301 ACCUMULATOR RESERVOIR

Hydraulic System

MOBIL DTE 10 EXCEL 32 (350 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

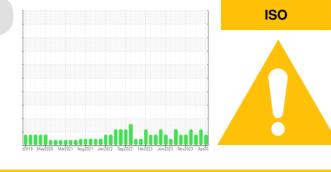
All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



Sample Rating Trend

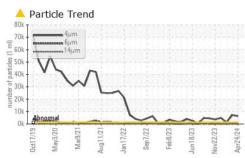
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HLC0003075	HLC0003034	HLC0003041
Sample Date		Client Info		24 Apr 2024	16 Mar 2024	08 Feb 2024
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		Filtered	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	6	4
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	1	0
Lead	ppm	ASTM D5185m	>20	0	1	0
Copper	ppm	ASTM D5185m	>20	<1	3	3
Tin	ppm	ASTM D5185m	>20	0	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	0
Barium	ppm	ASTM D5185m		0	<1	<1
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	1	0
Calcium	ppm	ASTM D5185m	120	95	101	89
Phosphorus	ppm	ASTM D5185m	475	419	462	418
Zinc	ppm	ASTM D5185m		43	45	35
Sulfur	ppm	ASTM D5185m	1275	1443	1832	1200
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	1
Sodium	ppm	ASTM D5185m		5	3	6
Potassium	ppm	ASTM D5185m	>20	<1	2	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	6234	A 7155	1329
Particles >6µm		ASTM D7647	>320	175	478	113
Particles >14µm		ASTM D7647	>80	13	18	8
Particles >21µm		ASTM D7647	>20	5	5	2
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	A 20/15/11	▲ 20/16/11	18/14/10
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.139	0.091	0.137
46:34) Rev: 1	. 0			Contact/I	ocation: Evan F	eilly - BPEMP

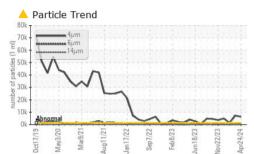
Report Id: BPEMPU [WUSCAR] 06176083 (Generated: 05/14/2024 09:46:34) Rev: 1

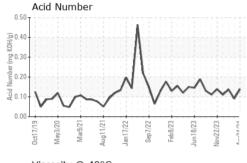
Contact/Location: Evan Reilly - BPEMPU

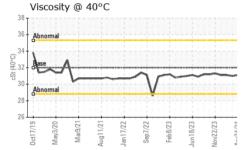


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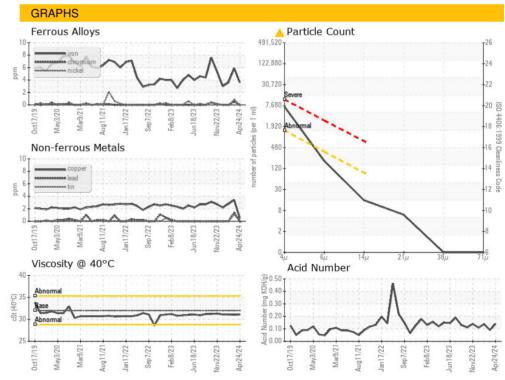








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
FLUID PROPERT Visc @ 40°C	IES cSt	method ASTM D445	limit/base 32	current 31.1	history1 31.0	history2 31.1
	cSt					
Visc @ 40°C	cSt	ASTM D445	32	31.1	31.0	31.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 HILCORP EXPLORATION ALASKA - MILNE POINT Sample No. : HLC0003075 Received : 10 May 2024 1000 MILNE POINT RD Lab Number : 06176083 Tested : 14 May 2024 PRUDOE BAY, AK Unique Number : 11022136 Diagnosed : 14 May 2024 - Wes Davis US 99734 Test Package : IND 2 Contact: Evan Reilly Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. evan.reilly@hilcorp.com T: (907)670-3231 * - 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)

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Contact/Location: Evan Reilly - BPEMPU Page 2 of 2

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