

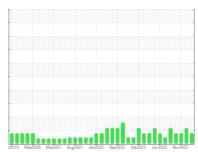
OIL ANALYSIS REPORT

IRIG [6587497]

ACCUMULATOR RESERVOIR IRIG-ACU-ACUM-2301 ACCUMULATOR RESERVOIR

Hydraulic System

MOBIL DTE 10 EXCEL 32 (350 GAL)



Sample Rating Trend



Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

2019 Mayl020 Mad021 Augl021 Jan2022 Sayl022 Fab.0223 Jun2023 Nov2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HLC0003041	HLC0003039	HLC0002788
Sample Date		Client Info		08 Feb 2024	01 Jan 2024	22 Nov 2023
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Filtered
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
CONTAMINATION	V	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	3	5
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	2
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	3	2	3
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	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		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m	120	89	74	99
Phosphorus	ppm	ASTM D5185m	475	418	392	477
Zinc	ppm	ASTM D5185m		35	12	33
Sulfur	ppm	ASTM D5185m	1275	1200	1012	1469
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	<1	1
Sodium	ppm	ASTM D5185m	>10	6	6	3
Potassium	ppm	ASTM D5185m	>20	0	2	<1
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	1329	▲ 4875	▲ 3597
Particles >6µm		ASTM D7647		113	▲ 322	212
Particles >14µm		ASTM D7647	>80	8	17	18
Particles >21µm		ASTM D7647		2	6	4
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	▲ 18/14/10	▲ 19/16/11	▲ 19/15/11
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
				0.127		

Acid Number (AN)

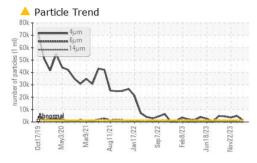
mg KOH/g ASTM D8045

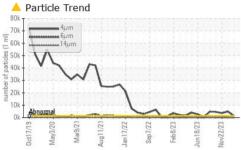
0.11

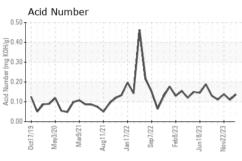
0.139

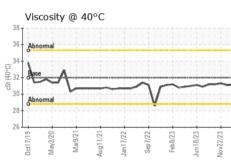


OIL ANALYSIS REPORT







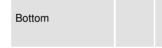


VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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 PROPER	ΓIFS	method	limit/base	current	history1	history2

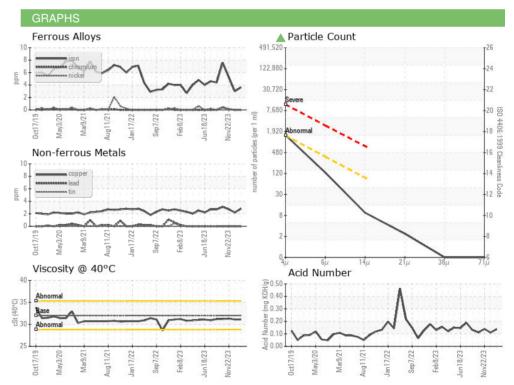
1 LOID I HOI LITTILO							
Visc @ 40°C	cSt	ASTM D445	32	31.1	31.1	31.3	

SAMPLE IMAGES	method		history2

Color











Certificate L2367

Laboratory Sample No.

Test Package : IND 2

Lab Number : 06100110 Unique Number : 10898340

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : HLC0003041

Received : 26 Feb 2024 **Tested**

: 27 Feb 2024 : 27 Feb 2024 - Wes Davis Diagnosed

HILCORP EXPLORATION ALASKA - MILNE POINT

1000 MILNE POINT RD PRUDOE BAY, AK US 99734

Contact: Evan Reilly evan.reilly@hilcorp.com

T: (907)670-3231

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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: x: