

OIL ANALYSIS REPORT

Area **IRIG** [7113108] IRIG-BLR-HPU-0901 IRIG-BLR-HPU-0901 HPU-GENERATOR MODULE Compone Pump

Fluid MOBIL DTE 10 EXCEL 32 (140 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filtration at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high 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.

ISO ·····

Sample Rating Trend

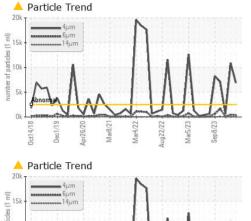
Sample Date Client Info 27 May 2024 27 Apr 2024 20 Oct 202 Machine Age hrs Client Info 889 889 797 Oil Age hrs Client Info 6 0 0 0 Oil Changed Client Info Filtered Filtered NA ABNORMAL NORMAL Sample Status Image Client Info Filtered ABNORMAL ABNORMAL NORMAL CONTAMINATION method Imit/base current history1 history1 Water WC Method .1 NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >5 0 0 0 Iron ppm ASTM D5185m >3 0 0 0 Auminum ppm ASTM D5185m >3 0 0 0 Auminum ppm ASTM D5185m >3 0 <	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 889 889 797 Oil Age hrs Client Info 0 0 0 Sample Status Client Info Filtered Filtered NA Sample Status Imit/base current history1 history1 Water WC Method >.1 NEG NEG NEG WEAR METALS method imit/base current history1 history1 Iron ppm ASTM D5165m >5 0 0 0 Nickel ppm ASTM D5165m >5 0 0 0 Silver ppm ASTM D5165m >3 0 0 0 Itanium ppm ASTM D5165m >3 0 0 0 Copper ppm ASTM D5165m >3 0 0 0 0 Cadmium ppm ASTM D5165m >9 0 0 0 0 Cadmium ppm ASTM D5165m 0 0 0 0 0 0	Sample Number		Client Info		HLC0003383	HLC0003065	HLC0002813
Dil Age hrs Client Info 0 0 0 Dil Changed Client Info Filtered Filtered N/A Sample Status Client Info Filtered ABNORMAL NA ABNORMAL ABNORMAL ABNORMAL NA NA Water WC Method >.1 NEG NEG NEG WEAR METALS method limit/base current history1 history1 form ppm ASTM 05185m >5 0 0 0 Nickel ppm ASTM 05185m >5 0 0 0 Nickel ppm ASTM 05185m >3 0 0 0 Auminum ppm ASTM 05185m >3 0 0 0 Auminum ppm ASTM 05185m >9 0 0 0 0 Variadium ppm ASTM 05185m 0 0 0 0 0 Variadium ppm	Sample Date		Client Info		27 May 2024	27 Apr 2024	20 Oct 2023
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Sample Status Image: Status ABNORMAL ABNORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history1 Water WC Method >.1 NEG NEG NEG WEAR METALS method limit/base current history1 history1 ron ppm ASTM D5185m >.90 <.1	Oil Age	hrs	Client Info		0	0	0
CONTAMINATION method limit/base current history1 history1 Water WC Method >.1 NEG NEG NEG WEAR METALS method limit/base current history1 history1 ron ppm ASTM D5185m >90 <1	Oil Changed		Client Info		Filtered	Filtered	N/A
Water WC Method >.1 NEG NEG NEG WEAR METALS method limit/base current history1 history1 ron ppm ASTM D5185m >90 <1	Sample Status				ABNORMAL	ABNORMAL	NORMAL
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Dalacium ppm ASTM D5185m 120 98 102 97 Phosphorus ppm ASTM D5185m 475 408 436 421 Zinc ppm ASTM D5185m 475 408 436 421 Zinc ppm ASTM D5185m 475 408 436 421 Sulfur ppm ASTM D5185m 1275 1579 1617 1361 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >60 <1	Vanganese	ppm	ASTM D5185m		0	0	0
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Zinc ppm ASTM D5185m 60 60 62 Sulfur ppm ASTM D5185m 1275 1579 1617 1361 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >60 <1	Calcium	ppm	ASTM D5185m	120	98	102	97
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Sulfur ppm ASTM D5185m 1275 1579 1617 1361 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >60 <1 <1 <1 Sodium ppm ASTM D5185m >60 <1 <1 <1 <1 Sodium ppm ASTM D5185m >60 <1 <1 <1 <1 Sodium ppm ASTM D5185m >60 <1 <1 <1 <1 Sodium ppm ASTM D5185m >20 <1 <1 <1 <2 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >2500 6899 10883 627 Particles >6µm ASTM D7647 >640 357 436 50 Particles >1µm ASTM D7647 >10 0 1 0 Particles >71µm ASTM D76			ASTM D5185m		60	60	62
Silicon ppm ASTM D5185m >60 <1	Sulfur		ASTM D5185m	1275	1579	1617	1361
Sodium ppm ASTM D5185m 3 3 4 Potassium ppm ASTM D5185m >20 <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1 <1 2 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >2500 ▲ 6899 ▲ 10883 627 Particles >6µm ASTM D7647 >640 357 436 50 Particles >14µm ASTM D7647 >160 19 20 5 Particles >21µm ASTM D7647 >40 4 6 2 Particles >38µm ASTM D7647 >10 0 1 0 Particles >71µm ASTM D7647 >3 0 0 0 Particles >71µm ISO 4406 (c) >18/16/14 20/16/11 21/16/11 16/13/10 Particles >71µm Method limit/base current history1 history1	Silicon	ppm	ASTM D5185m	>60	<1	<1	<1
Potassium ppm ASTM D5185m >20 <1 <1 2 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >2500 ▲ 6899 ▲ 10883 627 Particles >6µm ASTM D7647 >640 357 436 50 Particles >14µm ASTM D7647 >160 19 20 5 Particles >21µm ASTM D7647 >40 4 6 2 Particles >38µm ASTM D7647 >10 0 1 0 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Diatricles >71µm ASTM D7647 >3 0 0 0 Diatricles >71µm ISO 4406 (c) >18/16/14 20/16/11 21/16/11 16/13/10 FLUID DEGRADATION method limit/base current history1 history1 <td>Sodium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>3</td> <td>3</td> <td>4</td>	Sodium	ppm	ASTM D5185m		3	3	4
Particles >4µm ASTM D7647 >2500 ▲ 6899 ▲ 10883 627 Particles >6µm ASTM D7647 >640 357 436 50 Particles >14µm ASTM D7647 >160 19 20 5 Particles >21µm ASTM D7647 >40 4 6 2 Particles >21µm ASTM D7647 >10 0 1 0 Particles >38µm ASTM D7647 >10 0 1 0 Particles >71µm ASTM D7647 >3 0 0 0 Dil Cleanliness ISO 4406 (c) >18/16/14 20/16/11 21/16/11 16/13/10 FLUID DEGRADATION method limit/base current history1 history1	Potassium	ppm	ASTM D5185m	>20	<1	<1	2
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Particles >14μm ASTM D7647 >160 19 20 5 Particles >21μm ASTM D7647 >40 4 6 2 Particles >21μm ASTM D7647 >10 0 1 0 Particles >38μm ASTM D7647 >10 0 1 0 Particles >371μm ASTM D7647 >3 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 Dil Cleanliness ISO 4406 (c) >18/16/14 20/16/11 21/16/11 16/13/10 FLUID DEGRADATION method limit/base current history1 history1	Particles >4µm		ASTM D7647	>2500	▲ 6899	▲ 10883	627
Particles >21μm ASTM D7647 >40 4 6 2 Particles >38μm ASTM D7647 >10 0 1 0 Particles >38μm ASTM D7647 >3 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 Dil Cleanliness ISO 4406 (c) >18/16/14 20/16/11 21/16/11 16/13/10 FLUID DEGRADATION method limit/base current history1 history1	Particles >6µm		ASTM D7647	>640	357	436	50
Particles >38μm ASTM D7647 >10 0 1 0 Particles >71μm ASTM D7647 >3 0 0 0 Dil Cleanliness ISO 4406 (c) >18/16/14 20/16/11 21/16/11 16/13/10 FLUID DEGRADATION method limit/base current history1 history1			ASTM D7647	>160	19	20	5
Particles >71µm ASTM D7647 >3 0 0 0 Dil Cleanliness ISO 4406 (c) >18/16/14 20/16/11 21/16/11 16/13/10 FLUID DEGRADATION method limit/base current history1 history1	Particles >21µm		ASTM D7647	>40	4	6	2
Dil Cleanliness ISO 4406 (c) >18/16/14 20/16/11 21/16/11 16/13/10 FLUID DEGRADATION method limit/base current history1 history1	Particles >38µm		ASTM D7647	>10	0	1	0
FLUID DEGRADATION method limit/base current history1 history	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>18/16/14	20/16/11	▲ 21/16/11	16/13/10
Acid Number (AN) mg KOH/g ASTM D8045 0.169 0.14 0.104	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.169	0.14	0.104

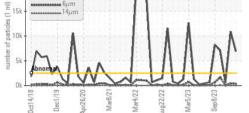
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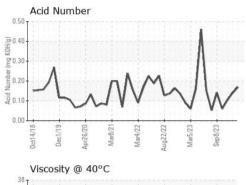
Contact/Location: Evan Reilly - BPEMPU Page 1 of 2

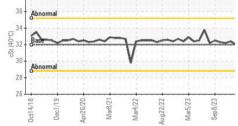


OIL ANALYSIS REPORT

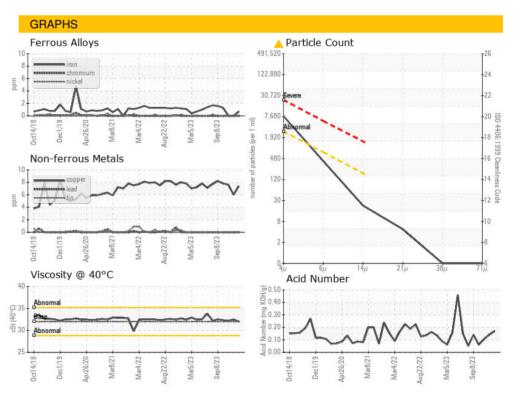








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	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 32.0	history1 32.4	history2 32.2
	cSt					
Visc @ 40°C	cSt	ASTM D445	32	32.0	32.4	32.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 HILCORP EXPLORATION ALASKA - MILNE POINT Sample No. : HLC0003383 1000 MILNE POINT RD Received : 06 Jun 2024 Lab Number : 06202002 Tested : 07 Jun 2024 PRUDOE BAY, AK Unique Number : 11069463 Diagnosed : 09 Jun 2024 - Don Baldridge US 99734 Test Package : IND 2 (Additional Tests: PrtCount) Contact: Evan Reilly Certificate 12367 evan.reilly@hilcorp.com To discuss this sample report, contact Customer Service at 1-800-237-1369. 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) F: x:

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