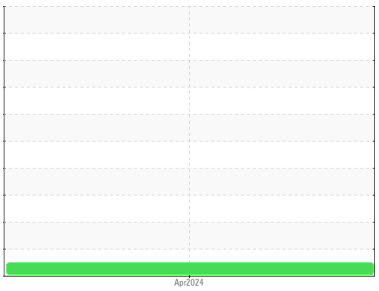
Hilcorp Alaska, LLC

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
MOBIL JET 2 - USED OIL-FILTERED-BOTTOM 1/4 DRUM MOBIL JET 2 - USED OIL-FILTERED-BOTTOM 1/4 DRUM
Component
Jet Turbine
Fluid
MOBIL JET OIL II (--- GAL)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample.

Contamination
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition
The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**HLC0002980**	---	---
Sample Date		Client Info		**09 Apr 2024**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**NORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	**0**	---	---
Chromium	ppm	ASTM D5185m	>2	**0**	---	---
Nickel	ppm	ASTM D5185m	>2	**<1**	---	---
Titanium	ppm	ASTM D5185m	>2	**<1**	---	---
Silver	ppm	ASTM D5185m	>2	**0**	---	---
Aluminum	ppm	ASTM D5185m	>2	**0**	---	---
Lead	ppm	ASTM D5185m	>3	**<1**	---	---
Copper	ppm	ASTM D5185m	>3	**0**	---	---
Tin	ppm	ASTM D5185m	>2	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**0**	---	---
Manganese	ppm	ASTM D5185m		**0**	---	---
Magnesium	ppm	ASTM D5185m		**0**	---	---
Calcium	ppm	ASTM D5185m		**0**	---	---
Phosphorus	ppm	ASTM D5185m		**2865**	---	---
Zinc	ppm	ASTM D5185m		**0**	---	---
Sulfur	ppm	ASTM D5185m		**0**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>8	**<1**	---	---
Sodium	ppm	ASTM D5185m		**0**	---	---
Potassium	ppm	ASTM D5185m	>20	**<1**	---	---
Water	%	ASTM D6304	>.1	**0.013**	---	---
ppm Water	ppm	ASTM D6304	>1000	**130**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**746**	---	---
Particles >6µm		ASTM D7647	>1300	**227**	---	---
Particles >14µm		ASTM D7647	>160	**41**	---	---
Particles >21µm		ASTM D7647	>40	**18**	---	---
Particles >38µm		ASTM D7647	>10	**2**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**17/15/13**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.03	**0.04**	---	---

OIL ANALYSIS REPORT

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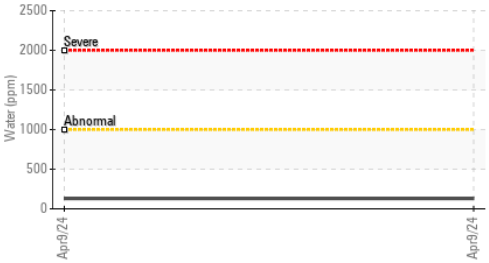
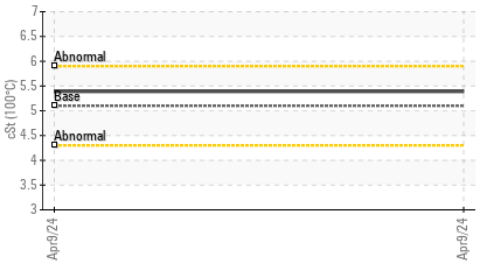
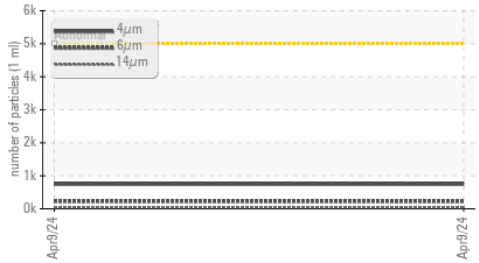
Water (KF)



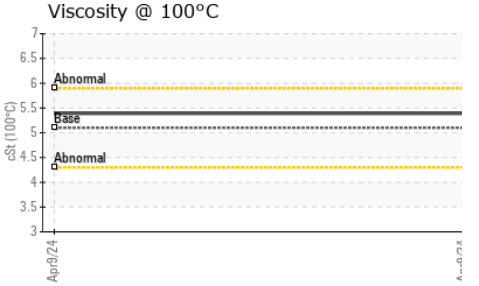
Viscosity @ 100°C



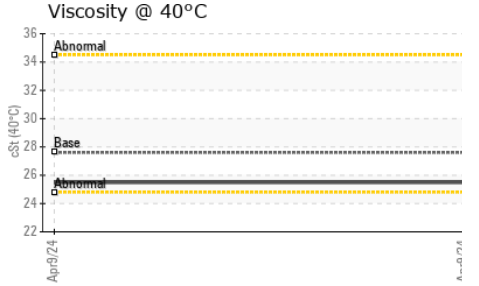
Particle Trend



Viscosity @ 100°C

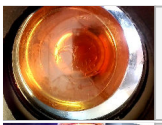


Viscosity @ 40°C



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>.1	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

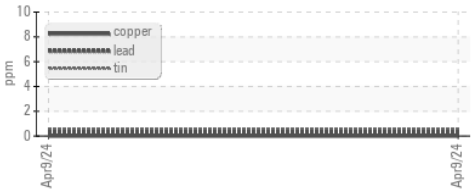
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	27.6	**25.49**	---	---
Visc @ 100°C	cSt	ASTM D445	5.1	**5.39**	---	---
Viscosity Index (VI)	Scale	ASTM D2270	113	**153**	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

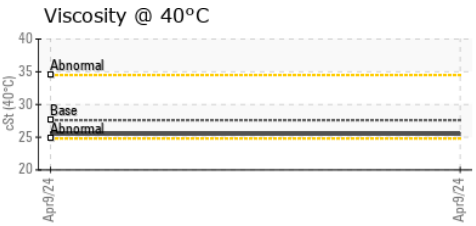
GRAPHS

Ferrous Alloys

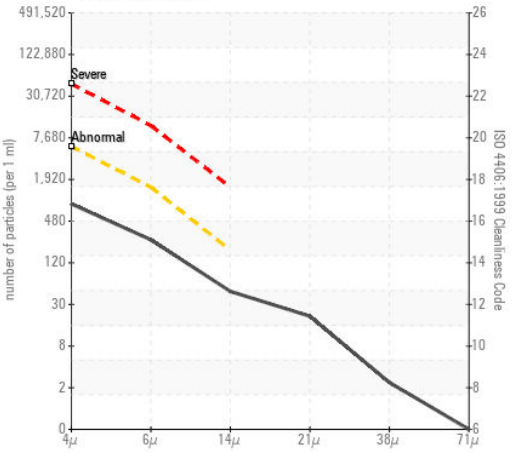
Non-ferrous Metals



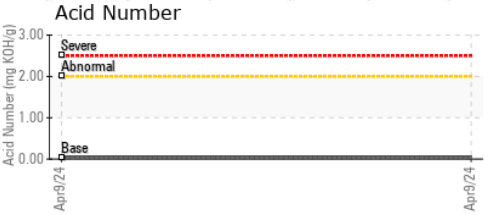
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HLC0002980
Lab Number : 06146309
Unique Number : 10976387
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

Received : 11 Apr 2024
Tested : 11 Apr 2024
Diagnosed : 11 Apr 2024 - Doug Bogart

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)

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
F: x:

Report Id: BPEMPU [WUSCAR] 06146309 (Generated: 04/11/2024 17:01:44) Rev: 1

Contact/Location: Evan Reilly - BPEMPU