



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**ASRI-TRI-HTR ASRI-TRI-HTR**  
 Component  
**Circulating System**  
 Fluid  
**SAE 0W30 (12 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>HLC0001926</b>	---	---
Sample Date	Client Info		<b>04 Jun 2023</b>	---	---
Machine Age	hrs	Client Info	<b>77388</b>	---	---
Oil Age	hrs	Client Info	<b>3143</b>	---	---
Oil Changed		Client Info	<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	<b>12</b>	---	---
Chromium	ppm	ASTM D5185m	<b>1</b>	---	---
Nickel	ppm	ASTM D5185m	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	<b>3</b>	---	---
Lead	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m	<b>0</b>	---	---
Tin	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>112</b>	---	---
Barium	ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>14</b>	---	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>822</b>	---	---
Calcium	ppm	ASTM D5185m	<b>1454</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>791</b>	---	---
Zinc	ppm	ASTM D5185m	<b>976</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>3870</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<b>9</b>	---	---
Sodium	ppm	ASTM D5185m	<b>&gt;12</b>	---	---
Potassium	ppm	ASTM D5185m	<b>&gt;20</b>	---	---

## INFRA-RED

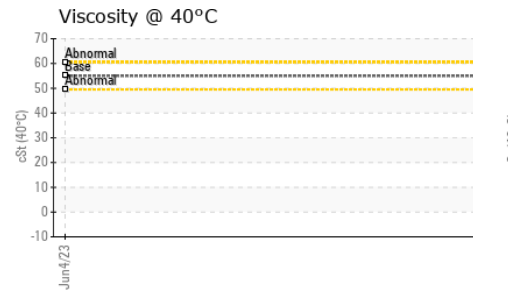
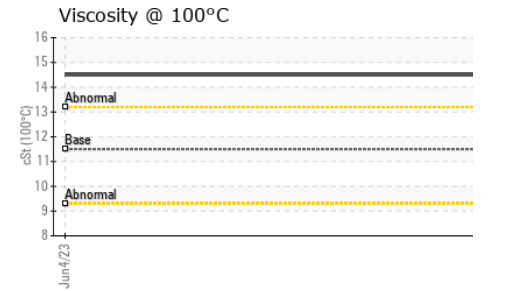
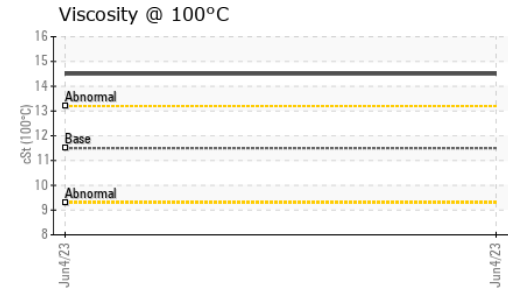
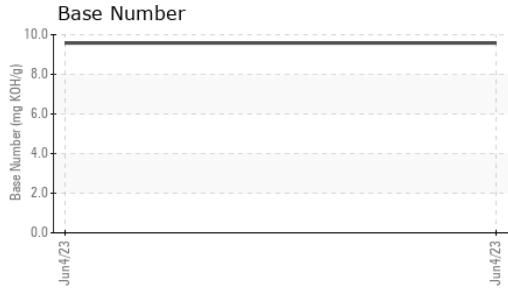
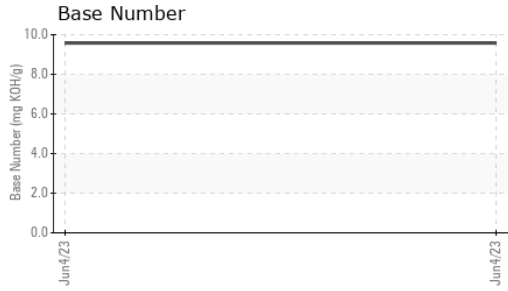
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.2</b>	---	---
Nitration	Abs/cm	*ASTM D7624	<b>8.7</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	<b>19.6</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	<b>14.5</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.13</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>9.58</b>	---	---



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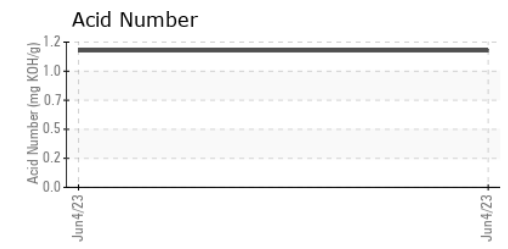
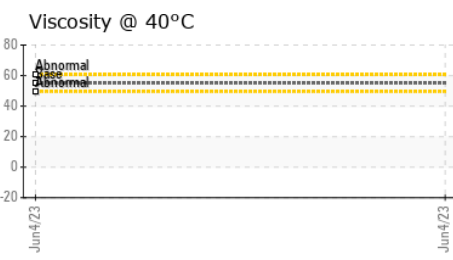
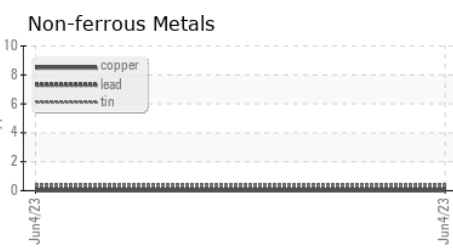
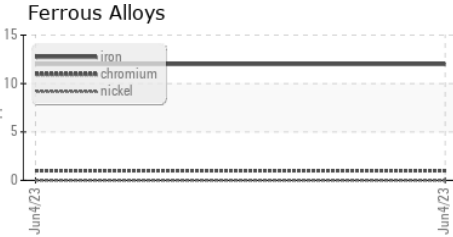
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	11.5	<b>14.5</b>	---	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : HLC0001926 **Received** : 19 Jun 2023  
**Lab Number** : 05877000 **Diagnosed** : 26 Jun 2023  
**Unique Number** : 10522103 **Diagnostician** : Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: FT-IR, KV100, TBN )

**HILCORP EXPLORATION ALASKA - MILNE POINT**  
 1000 MILNE POINT RD  
 PRUDOE BAY, AK  
 US 99734  
 Contact: Evan Reilly  
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Certificate L2367  
 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)