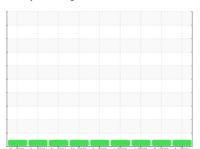


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# GE SITE 2 HP PUMP C (S/N 7X6P69970P)

Pump

SHELL MORLINA S4 B 68 (--- QTS)

D	ΙΔ		NI		S	ıs
$\boldsymbol{L}$	$I \cap$	u	N	v	${\boldsymbol{\circ}}$	$\mathbf{I}$

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

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

	Арг2021 Aug2021 Ner2021 Маг2022 Арг2022 Зи2023 Осг2023 Арг2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0837915	WC0837880	WC0837873	
Sample Date		Client Info		25 Apr 2024	07 Oct 2023	31 Jul 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2	
Water		WC Method	>.1	NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>90	0	<1	<1	
Chromium	ppm	ASTM D5185m	>5	0	0	0	
Nickel	ppm	ASTM D5185m	>5	0	0	0	
Titanium	ppm	ASTM D5185m	>3	0	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>7	0	0	<1	
Lead	ppm	ASTM D5185m	>12	0	0	0	
Copper	ppm	ASTM D5185m	>30	<1	<1	<1	
Tin	ppm	ASTM D5185m	>9	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		0	0	0	
Molybdenum	ppm	ASTM D5185m		0	0	0	
Manganese	ppm	ASTM D5185m		0	0	0	
Magnesium	ppm	ASTM D5185m		0	1	<1	
Calcium	ppm	ASTM D5185m		0	0	0	
Phosphorus	ppm	ASTM D5185m		208	260	274	
Zinc	ppm	ASTM D5185m		0	0	1	
Sulfur	ppm	ASTM D5185m		2894	2558	2799	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>60	1	2	2	
Sodium	ppm	ASTM D5185m		<1	0	0	
Potassium	ppm	ASTM D5185m	>20	0	0	0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	3900	889	1227	
Particles >6µm		ASTM D7647	>1300	1058	185	385	
Particles >14µm		ASTM D7647	>160	88	13	32	
Particles >21µm		ASTM D7647	>40	26	4	8	
		4 OT1 4 DE0 4E	. 10	2	^	^	
Particles >38μm		ASTM D7647	>10	3	0	0	
Particles >38μm Particles >71μm		ASTM D7647	>3	0	0	0	
Particles >38μm							

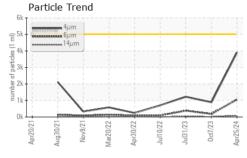
Acid Number (AN)

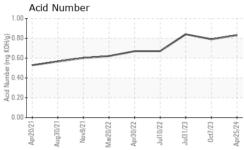
mg KOH/g ASTM D8045

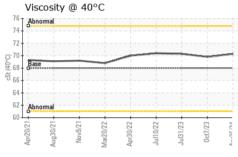
0.79

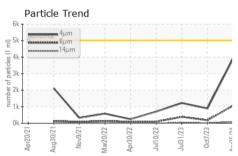


## **OIL ANALYSIS REPORT**









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
<b>Emulsified Water</b>	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2

Visc @ 40°C	cSt	ASTM D445	68	70.3	69.8	70.3
SAMPLE IMAGI	ES	method				history2

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Color

**Bottom** 

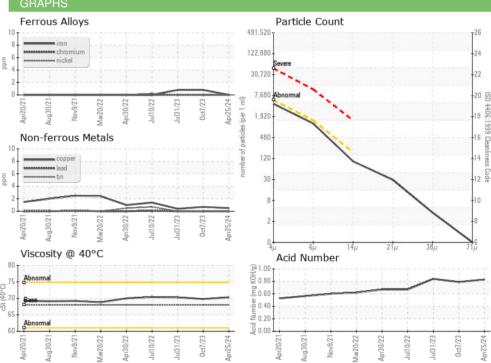
















Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0837915 Lab Number : 06161421

Received **Tested** Unique Number : 10996844 Diagnosed

: 26 Apr 2024 : 29 Apr 2024 : 30 Apr 2024 - Don Baldridge

VANDERBILT, TX Contact: DEREK HARGRAVE

dhargrave@hilcorp.com T: (361)284-7406

**HILCORP ENERGY - VANDERBILT** 

1421 MOBIL OIL ROAD

Test Package : IND 2 ( Additional Tests: PrtCount ) Certificate 12367 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) US 77991