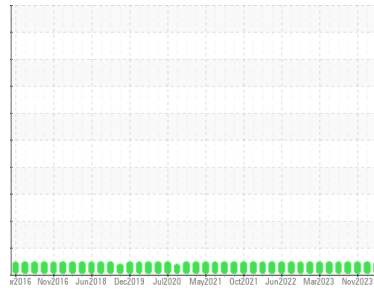




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area

[1003006]

Machine Id

**LCT-2**

Component

**Diesel Engine**

Fluid

**PHILLIPS 66 Fleet Supreme EC 15W40 (--- 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>WC0926841</b>	WC0843464	WC0865375
Sample Date	Client Info		<b>15 May 2024</b>	04 Jan 2024	10 Nov 2023
Machine Age	hrs	Client Info	<b>3040</b>	2986	2976
Oil Age	hrs	Client Info	<b>50</b>	102	92
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	<b>&lt;1</b>	<1	3
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>40	<b>0</b>	2	2
Copper	ppm	ASTM D5185m	>330	<b>0</b>	0	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	<1

### ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>82</b>	76	79
Barium	ppm	ASTM D5185m		<b>0</b>	0	13
Molybdenum	ppm	ASTM D5185m		<b>87</b>	92	94
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>36</b>	24	20
Calcium	ppm	ASTM D5185m		<b>2234</b>	2371	2251
Phosphorus	ppm	ASTM D5185m	1116	<b>1107</b>	1201	1072
Zinc	ppm	ASTM D5185m	1250	<b>1227</b>	1391	1223
Sulfur	ppm	ASTM D5185m		<b>4367</b>	4349	3929

### CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<b>3</b>	3	3
Sodium	ppm	ASTM D5185m		<b>2</b>	2	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	2

### INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.6</b>	7.8	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>16.6</b>	17.3	17.2

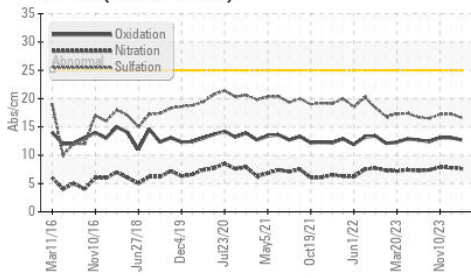
### FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.7</b>	13.1	13.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.7	<b>7.1</b>	6.8	7.1

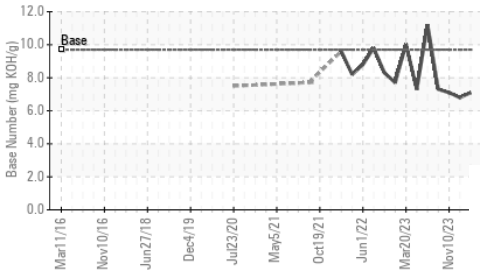


# OIL ANALYSIS REPORT

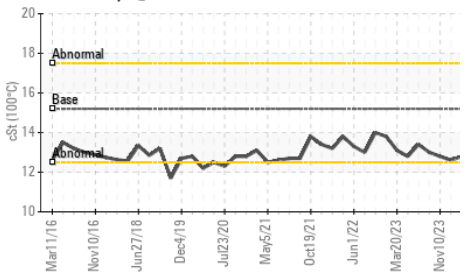
FT-IR (Direct Trend)



Base Number



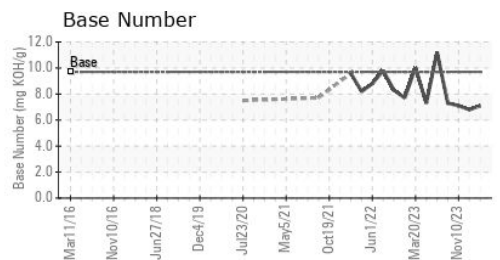
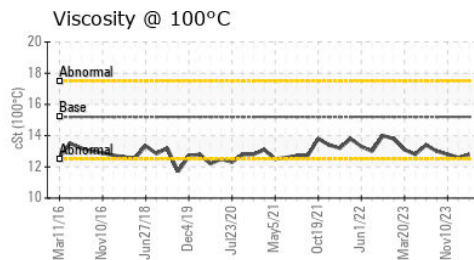
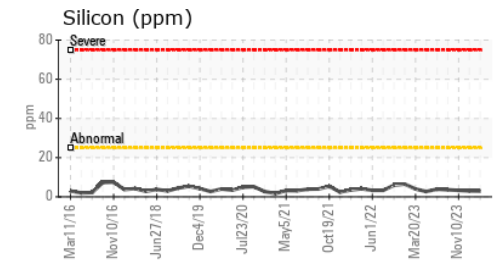
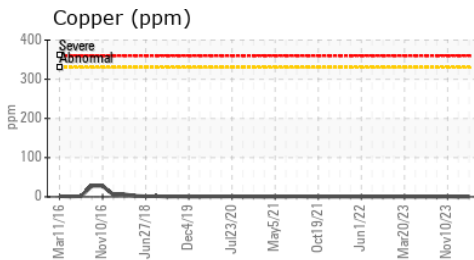
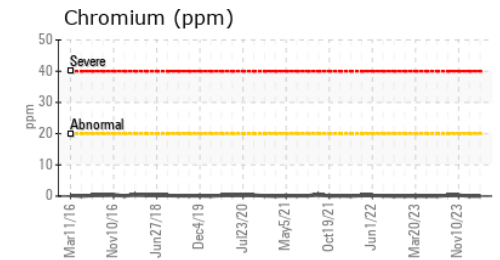
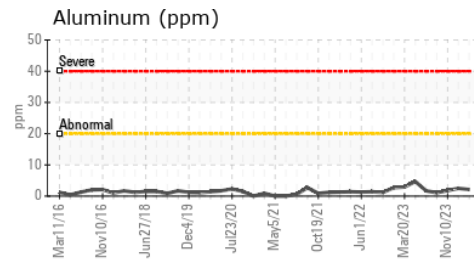
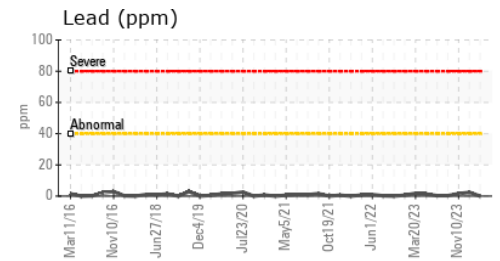
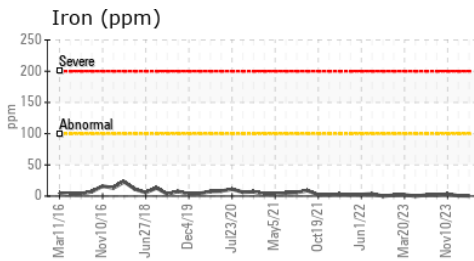
Viscosity @ 100°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.2	12.8	12.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0926841  
**Lab Number** : 06196433  
**Unique Number** : 11058556  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**Received** : 31 May 2024  
**Tested** : 03 Jun 2024

**Diagnosed** : 03 Jun 2024 - Don Baldrige

**AES USA - NORTH CHARLESTON**  
 5400 INTERNATIONAL BLVD, BLDG 88-20  
 NORTH CHARLESTON, SC  
 US 29418

Contact: Maxime Banctel  
 maxime.banctel@aes-gse.com

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)

T:  
 F: x: