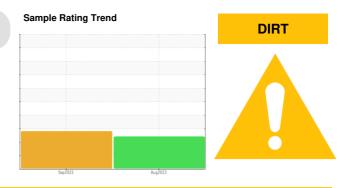


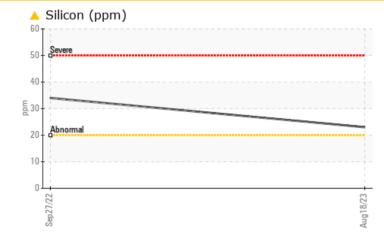
# **PROBLEM SUMMARY**

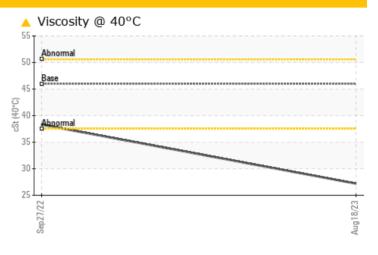
Area Ascendum Machinery/250 Hour CSA Machine Id CATERPILLAR D6E 474 (S/N 2MJ01941) Component Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)



### COMPONENT CONDITION SUMMARY





#### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	
Silicon	ppm	ASTM D5185m	>20	<u> </u>	<b>4</b> 34	
Debris	scalar	*Visual	NONE	🔺 MODER	NONE	
Visc @ 40°C	cSt	ASTM D445	46	<u> </u>	▲ 38.3	

Customer Id: TRIBUR Sample No.: ASC0001168 Lab Number: 05930819 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Filter			?	We recommend you service the filters on this component.	
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.	

### HISTORICAL DIAGNOSIS



#### 27 Sep 2022 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The AN level is acceptable for this fluid.



## ASCENDUM

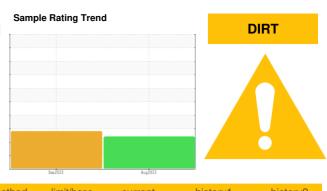
# **OIL ANALYSIS REPORT**



### Area Ascendum Machinery/250 Hour CSA CATERPILLAR D6E 474 (S/N 2MJ01941) Component

**Hydraulic System** 

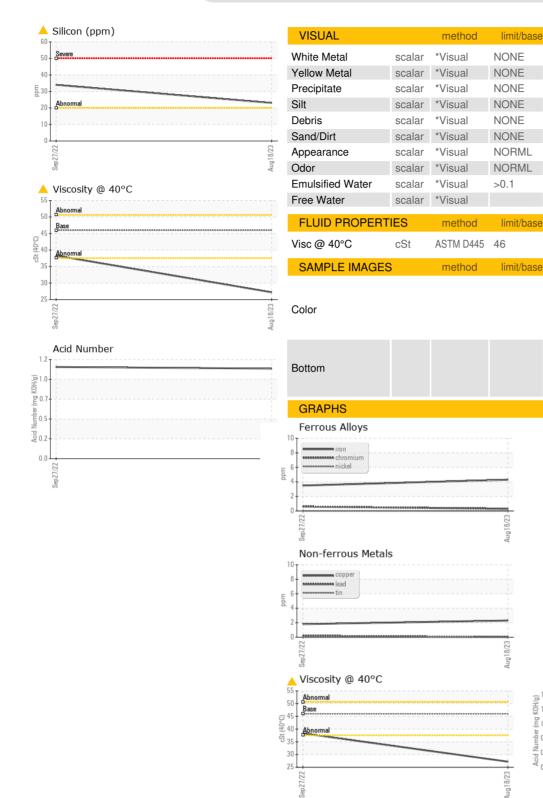
**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)** 

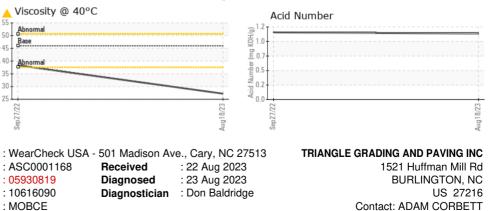


DIAGNOSIS	SAMPLE INFORMATIC	ON method	limit/base	current	history1	history2
Recommendation	Sample Number	Client Info		ASC0001168	VCP0004574	
e recommend you service the filters on this	Sample Date	Client Info		18 Aug 2023	27 Sep 2022	
mponent. Resample at the next service interval to	Machine Age hrs	Client Info		5671	5528	
nitor. We were unable to perform a particle count e to a high concentration of particles present in	Oil Age hrs	Client Info		5671	5528	
s sample.	Oil Changed	Client Info		Not Changd	Not Changd	
ear	Sample Status			ABNORMAL	ABNORMAL	
component wear rates are normal.	WEAR METALS	method	limit/base	current	history1	history2
Contamination	Iron ppm	n ASTM D5185m	>20	4	4	
derate concentration of visible dirt/debris present	Chromium ppm		>10	<1	<1	
ne oil. Elemental level of silicon (Si) above	Nickel ppm		>10	0	0	
nal indicating ingress of seal material.	Titanium ppm			<1	0	
uid Condition	Silver ppm			0	0	
oil viscosity is lower than normal. Confirm oil	Aluminum ppm	n ASTM D5185m	>10	2	0	
. The AN level is acceptable for this fluid.	Lead ppm	n ASTM D5185m	>10	0	<1	
	Copper ppm	n ASTM D5185m	>75	2	2	
	Tin ppm	n ASTM D5185m	>10	0	0	
	Vanadium ppm	n ASTM D5185m		<1	0	
	Cadmium ppm	n ASTM D5185m		0	0	
	ADDITIVES	method	limit/base	current	history1	history2
	Boron ppr	n ASTM D5185m	14	1	4	
	Barium ppm	n ASTM D5185m	0.0	0	0	
	Molybdenum ppm	n ASTM D5185m	0.0	2	3	
	Manganese ppm	n ASTM D5185m	0.0	<1	0	
	Magnesium ppm	n ASTM D5185m	2.6	195	324	
	Calcium ppm	n ASTM D5185m	49	1669	656	
	Phosphorus ppm	n ASTM D5185m	354	671	645	
	Zinc ppm			796	724	
	Sulfur ppm	n ASTM D5185m	3719	2783	2486	
	CONTAMINANTS	method	limit/base	current	history1	history2
	Silicon ppm	n ASTM D5185m	>20	<mark>/</mark> 23	<b>4</b> 34	
	Sodium ppm	n ASTM D5185m		<1	<1	
	Potassium ppm	n ASTM D5185m	>20	0	0	
	FLUID CLEANLINESS	method	limit/base	current	history1	history2
	Particles >4µm	ASTM D7647	>5000		<b>9</b> 614	
	Particles >6µm	ASTM D7647	>1300		573	
	Particles >14µm	ASTM D7647	>160		28	
	Particles >21µm	ASTM D7647	>40		6	
	Particles >38µm	ASTM D7647			0	
	Particles >71µm	ASTM D7647	>3		0	
	Oil Cleanliness	ISO 4406 (c)	>19/17/14		▲ 20/16/12	
	FLUID DEGRADATION	N method	limit/base	current	history1	history2
	Acid Number (AN)			1.00	1 1 1	



# **OIL ANALYSIS REPORT**





history1

LIGHT

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

history1

NEG

NEG

A 38.3

current

NONE

NONE

NONE

NONE

MODER

NONE

NORML

NORML

curren

current

NEG

NEG

**27.2** 

Ē 0.7

Acid Nu 0.2

: 22 Aug 2023

: 23 Aug 2023

: Don Baldridge

0.0

history2

history2

history2

no image

no image



Test Package : MOBCE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. wacorbett@trianglegradingpaving.com \* - 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)

: ASC0001168

:05930819

: 10616090

Received

Diagnosed

Diagnostician

Laboratory

Sample No.

Lab Number

Unique Number

F: (336)584-0145

Т: