



# CONSTRUCTION EQUIPMENT

SWO-064939 VOLVO A45G 352973 - DROP BOX



**Sample No:** VCP427431  
**Oil Type:** NOT GIVEN  
**Job No:** SWO-064939



## SAMPLE INFORMATION

Sample Number	<b>VCP427431</b>	VCP405906	VCP405251	VCP393656
Sample Date	<b>24 Aug 2023</b>	06 Jun 2023	21 Mar 2023	20 Dec 2022
Machine Hours	<b>3044</b>	2472	2001	1655
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

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## OIL CONDITION

Visc @ 40°C	cSt	<b>48.5</b>	48.0	47.4	48.1
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## CONTAMINATION

Silicon	ppm	<b>▲ 69</b>	▲ 66	▲ 62	▲ 61
Sodium	ppm	■ 5	■ 8	■ 9	■ 7
Potassium	ppm	■ 3	■ 3	■ 1	■ 2

**Diagnosis**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	■ <b>313</b>	■ 187	■ 101	■ 105
Copper	ppm	■ <b>14</b>	■ 10	■ 11	■ 12
Lead	ppm	■ <b>&lt;1</b>	■ <1	■ 0	■ 0
Tin	ppm	■ <b>0</b>	■ <1	■ 0	■ 0
Aluminum	ppm	■ <b>0</b>	■ <1	■ <1	■ 0
Chromium	ppm	■ <b>2</b>	■ 2	■ 1	■ 1
Molybdenum	ppm	<b>6</b>	5	6	7
Nickel	ppm	■ <b>2</b>	■ 1	■ <1	■ <1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>7</b>	4	3	3
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>28</b>	44	55	52
Magnesium	ppm	<b>4</b>	5	5	5
Zinc	ppm	<b>113</b>	108	102	95
Phosphorus	ppm	<b>2041</b>	2390	2290	2247
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>102</b>	113	105	101

**Depot:** SAIBIR  
**Unique No:** 10630551  
**Signed:** Don Baldrige  
**Report Date:** 05 Sep 2023

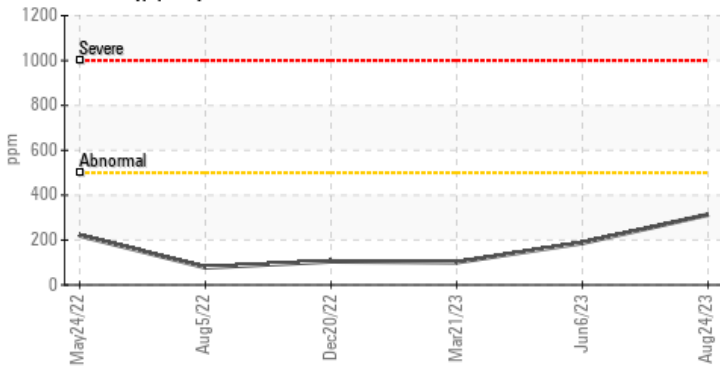


# CONSTRUCTION EQUIPMENT

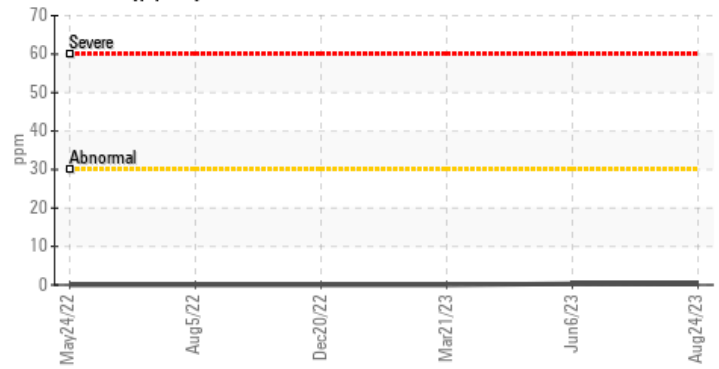


## GRAPHS

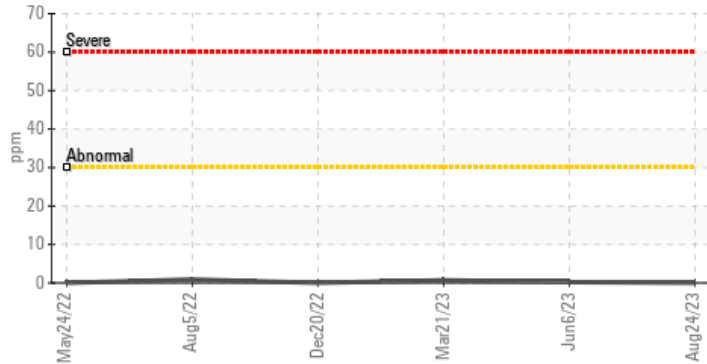
### Iron (ppm)



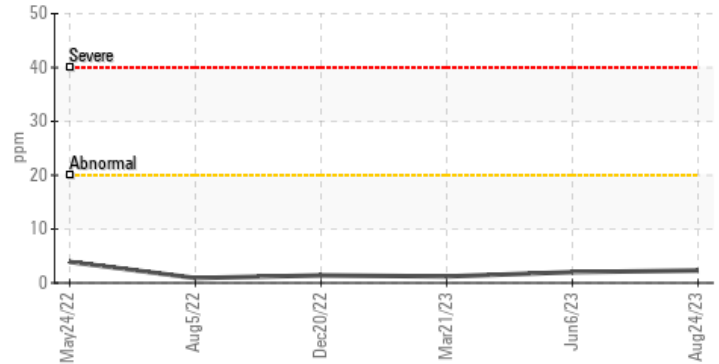
### Lead (ppm)



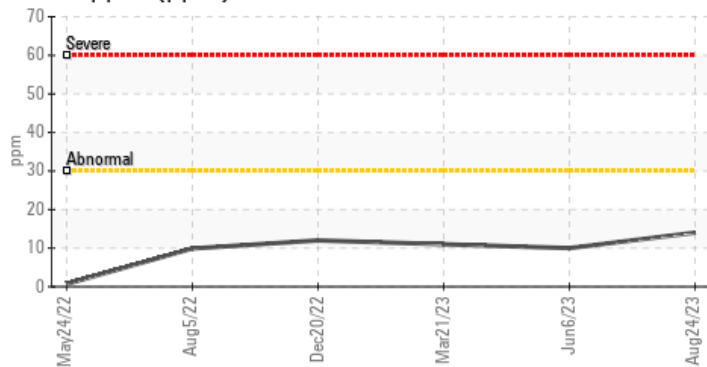
### Aluminum (ppm)



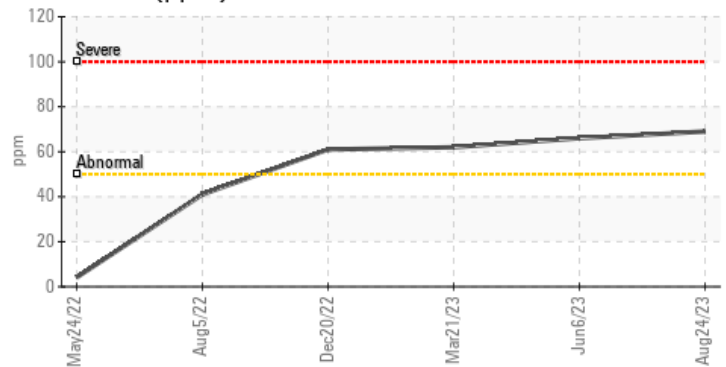
### Chromium (ppm)



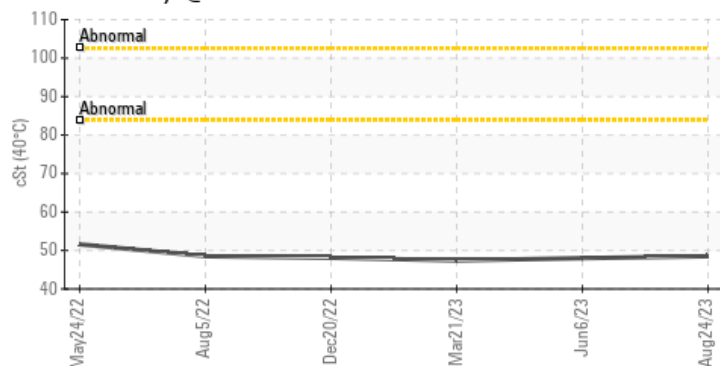
### Copper (ppm)



### ▲ Silicon (ppm)



### Viscosity @ 40°C



### Additives

