



# CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY 500HR CSA/TRIANGLE GRADING 19006



**Sample No:** VCP407549  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 19006



## SAMPLE INFORMATION

Sample Number	<b>VCP407549</b>	VCP382649	VCP322739	---
Sample Date	<b>03 Jul 2023</b>	20 Feb 2023	06 Jun 2021	---
Machine Hours	<b>6473</b>	6088	4108	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	Changed	Changed	---
Sample Status	<b>SEVERE</b>	SEVERE	ABNORMAL	---

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## OIL CONDITION

Visc @ 40°C	cSt	<b>404</b>	790	325	---
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## CONTAMINATION

Water	%	<b>0.229</b>	0.468	---	---
Silicon	ppm	<b>1174</b>	1848	448	---
Sodium	ppm	<b>59</b>	110	20	---
Potassium	ppm	<b>68</b>	123	22	---



## WEAR METALS

Iron	ppm	<b>2276</b>	3709	1230	---
Copper	ppm	<b>4</b>	8	2	---
Lead	ppm	<b>&lt;1</b>	<1	<1	---
Tin	ppm	<b>&lt;1</b>	<1	<1	---
Aluminum	ppm	<b>325</b>	506	139	---
Chromium	ppm	<b>20</b>	38	15	---
Molybdenum	ppm	<b>2</b>	4	1	---
Nickel	ppm	<b>2</b>	7	1	---
Titanium	ppm	<b>18</b>	33	9	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>15</b>	23	11	---
Vanadium	ppm	<b>&lt;1</b>	1	<1	---



## ADDITIVES

Calcium	ppm	<b>59</b>	96	30	---
Magnesium	ppm	<b>42</b>	65	14	---
Zinc	ppm	<b>16</b>	15	10	---
Phosphorus	ppm	<b>998</b>	851	642	---
Barium	ppm	<b>2</b>	3	0	---
Boron	ppm	<b>140</b>	146	48	---

## Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** TRIBUR  
**Unique No:** 10552879  
**Signed:** Don Baldrige  
**Report Date:** 14 Jul 2023



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## GRAPHS

