## CONSTRUCTION EQUIPMENT GRASSEY CREEK VOLVO L 180G 22208 - DIESEL ENGINE



 Sample No:
 VCP426944

 Oil Type:
 VOLVO ULT

VOLVO

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

GRASSEY CREEK

SAMPLE IN	NFORMATION			
Sample Number	-	VCP426944	VCE69642	 
Sample Date		27 Jul 2023	09 Jan 2015	 
Machine Hours		6318	2007	 
Oil Hours		0	0	 
Oil Changed		Changed	Changed	 
Sample Status		ABNORMAL	NORMAL	 
OIL CONDI	TION			
Visc @ 100°C	cSt	13.2	14.07	 
Base Number (BN)	mg KOH/g	7.3		 
Oxidation (PA)	%	71	56	 
CONTAMIN	NATION			
Soot %	%	0.5	0.3	 
Nitration (PA)	%	89	58	 
Sulfation (PA)	%	59	50	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	< 1.0	 
Silicon	ppm	7	5	 
Sodium	ppm	<b>1</b> 3	5	 
Potassium	ppm	3	4	 

VOLVO

WEAR N	METALS			
Iron	ppm	37	7	 
Copper	ppm	<b>1</b> 3	8	 
Lead	ppm	2	2	 
Tin	ppm	<b>1</b>	4	 
Aluminum	ppm	🔺 12	2	 
Chromium	ppm	<b>1</b>	<1	 
Molybdenum	ppm	45	47	 
Nickel	ppm	<u> </u>	2	 
Titanium	ppm	<1	<1	 
Silver	ppm	0	0	 
Manganese	ppm	2	<1	 
Vanadium	ppm	<1	0	 

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ADDITIVES							
Calcium	ppm	<b>1520</b>	1314				
Magnesium	ppm	652	877				
Zinc	ppm	<b>1051</b>	1094				
Phosphorus	ppm	732	946				
Barium	ppm	0	0				
Boron	ppm	25	32				



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## Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.The aluminum level is abnormal. Valve wear is indicated. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VOLVO1672

 Unique No:
 10576316

 Signed:
 Don Baldridge

 Report Date:
 31 Jul 2023

Report Id: VOLVO1672 [WUSCAR] 05909664 (Generated: 07/31/2023 17:19:46) Rev: 1

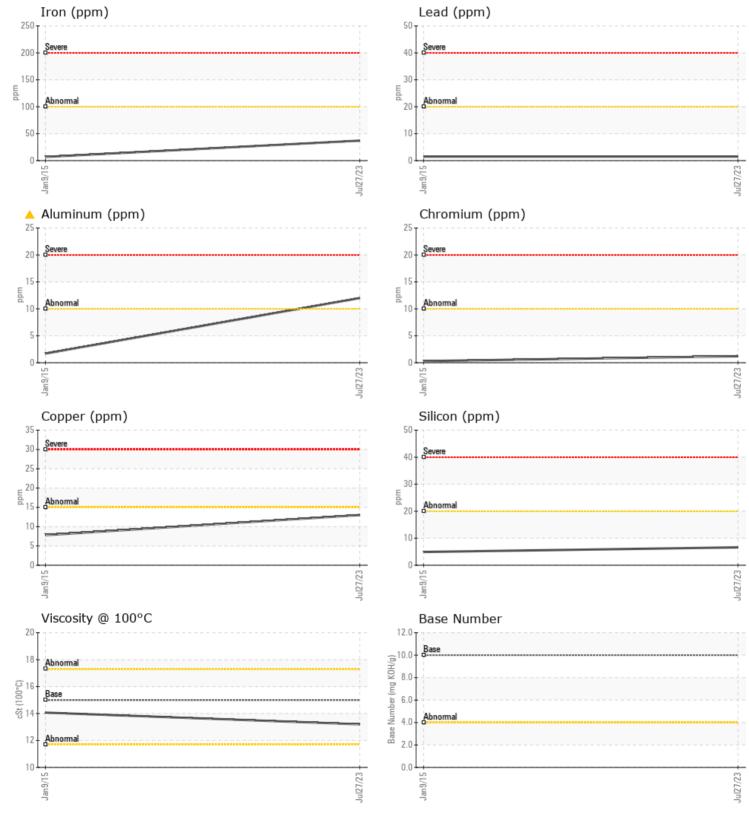
Contact/Location: BRANDON DRAKE - VOLVO1672

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



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Contact/Location: BRANDON DRAKE - VOLVO1672