



CONSTRUCTION EQUIPMENT

347608 GROVE GRT8100 235974 - DIESEL ENGINE



Sample No: VCP379510
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 347608



SAMPLE INFORMATION

Sample Number	VCP379510	VCP298088	---	---
Sample Date	13 Dec 2022	07 Jun 2022	---	---
Machine Hours	6200	5646	---	---
Oil Hours	0	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

STRONGCO EQUIPMENT--CALGARY

7923 54TH STREET SE
 CALGARY, AB
 CA T2C 4R7

Contact: Ryan Bonnell
 rbonnell@strongco.com
 T: (403)216-1010
 F: (403)216-1016



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.3	---	---
Oxidation (PA)	%	101	39	---	---



CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	92	46	---	---
Sulfation (PA)	%	67	45	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	1.9	1.6	---	---
Silicon	ppm	9	8	---	---
Sodium	ppm	3	3	---	---
Potassium	ppm	8	8	---	---

Diagnosis

Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	19	24	---	---
Copper	ppm	1	2	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	6	6	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	39	39	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1720	1679	---	---
Magnesium	ppm	496	510	---	---
Zinc	ppm	1076	1103	---	---
Phosphorus	ppm	977	915	---	---
Barium	ppm	0	0	---	---
Boron	ppm	38	37	---	---

Depot: VOLVO3909
Unique No: 5501527
Signed: Kevin Marson
Report Date: 16 Dec 2022



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GRAPHS

