



# CONSTRUCTION EQUIPMENT

## 375022 VOLVO L180H 4705 - DIESEL ENGINE



**Sample No:** VCP391600  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 375022



### SAMPLE INFORMATION

Sample Number	VCP391600	VCP353256	VCP352675	VCP331975
Sample Date	11 Aug 2023	16 Dec 2022	23 Sep 2022	22 Jun 2022
Machine Hours	9553	8519	8051	7535
Oil Hours	500	500	500	500
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



**STRONGCO EQUIPMENT INC (STE- FOY)**  
 175, rue de Rotterdam  
 St-Augustin-de-Desmaures, QC  
 CA G3A 2K2  
 Contact: Michel Lepage  
 mlepage@strongco.com  
 T: (418)870-1700  
 F: (418)870-1701



### OIL CONDITION

Visc @ 100°C	cSt	12.5	12.4	12.7	12.7
Oxidation (PA)	%	78	85	85	82



### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	58	58	58	58
Sulfation (PA)	%	62	66	64	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	3	4	5
Sodium	ppm	3	2	2	3
Potassium	ppm	<1	0	0	<1



### WEAR METALS

Iron	ppm	5	3	3	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	1	1	1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	40	39	40	39
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	2	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



### ADDITIVES

Calcium	ppm	1657	1706	1666	1666
Magnesium	ppm	512	481	504	521
Zinc	ppm	1069	1042	1066	1088
Phosphorus	ppm	968	967	982	945
Barium	ppm	0	0	0	0
Boron	ppm	39	48	36	45

### Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.

**Depot:** VOLVO0228  
**Unique No:** 5629442  
**Signed:** Wes Davis  
**Report Date:** 17 Aug 2023



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## GRAPHS

