



CONSTRUCTION EQUIPMENT

STELLA-JONES 381483 VOLVO L90H 625431 - DIESEL ENGINE



Sample No: VCP429729
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 381483



SAMPLE INFORMATION

Sample Number	VCP429729	VCP380474	VCP392092	VCP381835
Sample Date	13 Oct 2023	16 Aug 2023	16 May 2023	29 Mar 2023
Machine Hours	9498	9068	5470	8017
Oil Hours	500	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD
 MISSISSAUGA, ON
 CA L4W 4L4

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.4	12.9	12.7
Oxidation (PA)	%	82	88	82	83



CONTAMINATION

Soot %	%	0.3	0.4	0.2	0
Nitration (PA)	%	62	73	58	59
Sulfation (PA)	%	63	68	65	71
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	5
Sodium	ppm	3	3	2	3
Potassium	ppm	10	0	0	0

Diagnosis

Resample at the next service interval to monitor. 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. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	9	10	7	7
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	4	3	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	39	39	40
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1751	1699	1736	1774
Magnesium	ppm	519	505	503	502
Zinc	ppm	1106	1113	1101	1067
Phosphorus	ppm	943	979	1009	995
Barium	ppm	<1	0	0	0
Boron	ppm	26	22	32	42

Depot: SHEMIS
Unique No: 5658630
Signed: Wes Davis
Report Date: 17 Oct 2023



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GRAPHS

