



CONSTRUCTION EQUIPMENT

397863 VOLVO L120H 632080 - DIESEL ENGINE



Sample No: VCP430128
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 397863



SAMPLE INFORMATION

Sample Number	VCP430128	VCP392873	VCP394346	VCP394288
Sample Date	11 Mar 2024	18 Jan 2024	03 Nov 2023	29 Sep 2023
Machine Hours	33670	33132	32397	31736
Oil Hours	500	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIP (AB)
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 RED DEER COUNTY, AB
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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.3	13.2	13.1
Oxidation (PA)	%	84	87	84	81

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.2	0.1
Nitration (PA)	%	63	67	58	54
Sulfation (PA)	%	63	65	64	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	6
Sodium	ppm	2	2	2	4
Potassium	ppm	<1	<1	0	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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	10	14	8	9
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	3	4	2	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	41	41	41	43
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1739	1765	1756	1800
Magnesium	ppm	510	516	513	534
Zinc	ppm	1079	1105	1114	1162
Phosphorus	ppm	947	951	933	985
Barium	ppm	0	0	<1	<1
Boron	ppm	37	35	36	40

Depot: VOLVO9652
Unique No: 5747036
Signed: Wes Davis
Report Date: 14 Mar 2024



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GRAPHS

