



CONSTRUCTION EQUIPMENT

388918 VOLVO L70H 622160 - DIESEL ENGINE



Sample No: VCP392847
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 388918



SAMPLE INFORMATION

Sample Number	VCP392847	VCP394706	VCP392392	VCP352960
Sample Date	18 Dec 2023	14 Aug 2023	06 Apr 2023	03 Nov 2022
Machine Hours	7792	7123	6501	5863
Oil Hours	500	600	0	500
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	13.4	13.9	13.9	13.7
Oxidation (PA)	%	92	88	96	102

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0	0
Nitration (PA)	%	76	73	85	85
Sulfation (PA)	%	65	66	73	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	7	6
Sodium	ppm	2	3	2	3
Potassium	ppm	<1	0	0	0

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	9	10	10
Copper	ppm	<1	1	<1	<1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	3	5	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	44	45	47	44
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1692	1676	1879	1784
Magnesium	ppm	569	608	578	532
Zinc	ppm	1144	1151	1203	1143
Phosphorus	ppm	981	1029	1090	1007
Barium	ppm	0	0	0	0
Boron	ppm	23	20	32	28

Depot: VOLVO9652
Unique No: 5697429
Signed: Wes Davis
Report Date: 20 Dec 2023



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VOLVO GRAPHS

