

CONSTRUCTION EQUIPMENT

GFL 8-393399 VOLVO EC220E 310830 - REAR LEFT FINAL DRIVE

Sample No: VCP449358

Oil Type: GEAR OIL SAE 80W90

Job No: 8-393399

VOLVO					
CAMDI	E INFORMATION				
	L INI UNMATION		140000004		1400040504
Sample Number		VCP449358	VCP352284	VCP252198	VCP212531
Sample Date		02 Feb 2024	10 Jun 2022	24 Apr 2020	15 Feb 2019
Machine Hours		6000	3980	2002	492
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL
VOLVO					
OIL CON	IDITION				
Visc @ 40°C	cSt	▲ 58.6	214	145	182
			_	_	_
VOLVO	MINIATION				
	MINATION				
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	680	□500	125	2 6
Sodium	ppm	■36	□ 25	■9	4
Potassium	ppm	40	□30	9	2
VOLVO					
WEAR N	METALS				
PQ		□337	1103	370	
Iron	ppm	▲ 3840	1188	■ 633	■219
Copper	ppm	■11	1 2	1	<1 < 1
Lead	ppm	■<1	<1	0	<1
Tin	ppm	■ 0	0	1 0	0
Aluminum	ppm	109	8 2	2 1	1 4
Chromium	ppm	24	8	8	3
Molybdenum	ppm	<u> </u>	<1	- <1	- <1
Nickel	ppm	<u> </u>	4	6	2
Titanium	ppm	7	6	2	<1
Silver	ppm	0	0	0	0
Manganese	ppm	26	1 0	6	3
Vanadium	ppm	0	<1	<1	0
ADDITIV	731				
_	<u> </u>		0.74	-445	
Calcium	ppm	412	271	115	2 3
Magnesium	ppm	■87	6 1	2 1	5
Zinc	ppm	26	4	1 4	1 11
Phosphorus	ppm	2169	473	952	435
Barium	ppm	■ 0	<1 <1 <	0	<1
Boron	ppm	195	9	114	- <1



STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD MISSISSAUGA, ON CA L4W 4L4 Contact: Janice Cripps jcripps@strongco.com T: (905)565-3876 F: (905)670-2338

Diagnosis

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Iron and nickel ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 80 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:SHEMISUnique No:5724220Signed:Kevin MarsonReport Date:14 Feb 2024



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