



CONSTRUCTION EQUIPMENT

8-387321 VOLVO L90H 624665 - FRONT AXLE



Sample No: VCP380053

Oil Type: NOT GIVEN

Job No: 8-387321



SAMPLE INFORMATION

Sample Number	VCP380053	VCP332532	VCP280547	VCP260305
Sample Date	13 Dec 2023	08 Jul 2022	14 May 2021	11 Feb 2020
Machine Hours	8116	6055	4031	1997
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	ABNORMAL	NORMAL	NORMAL



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



OIL CONDITION

Visc @ 40°C	cSt	43.0	39.4	39.6	41.3
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	205	91	26	18
Sodium	ppm	25	16	8	3
Potassium	ppm	18	8	2	2



WEAR METALS

PQ		345	123	---	---
Iron	ppm	1848	386	117	80
Copper	ppm	6	2	<1	<1
Lead	ppm	<1	<1	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	58	27	5	2
Chromium	ppm	17	4	2	2
Molybdenum	ppm	2	<1	2	2
Nickel	ppm	8	2	<1	<1
Titanium	ppm	4	2	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	16	5	3	4
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	4465	4079	3986	4359
Magnesium	ppm	47	27	15	13
Zinc	ppm	1611	1559	1663	1720
Phosphorus	ppm	1319	1300	1317	1380
Barium	ppm	0	0	0	0
Boron	ppm	126	121	113	124

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 75W80 Tractor TDH Fluid. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. Iron ppm levels are severe. PQ levels are abnormal. Nickel and chromium ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: SHEMIS
Unique No: 5697033
Signed: Kevin Marson
Report Date: 19 Dec 2023



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GRAPHS

