CONSTRUCTION EQUIPMENT 1001-504 VOLVOL120H 632415 - DIESEL ENGINE



 Sample No:
 VCP449352

 Oil Type:
 DIESEL ENGINE OIL SAE 40

 Job No:
 1001-504

SAMPLE INFORMATION

Tin

Aluminum

Chromium

Nickel

Silver

Titanium

Manganese

Vanadium

Molybdenum

VOLVO

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Sample Number		VCP449352	VCP349517	VCP334277	VCP334485				
Sample Date		15 Mar 2024	04 May 2022	07 Mar 2022	05 Oct 2021				
Machine Hours		9530	8499	8050	7010				
Oil Hours		0	0	0	0				
Oil Changed		Changed	Changed	Changed	Changed				
Sample Status		SEVERE	NORMAL	NORMAL	SEVERE				
OIL CONDITION									
Visc @ 100°C	cSt	13.3	13.6	13.7	13.3				
Oxidation (PA)	%	86	86	86	85				
CONTAMINATION									
Water	%	NEG	NEG	NEG	NEG				
Soot %	%	0.5	0.1	0.1	0.5				
Nitration (PA)	%	68	59	61	68				
Sulfation (PA)	%	63	69	67	67				
Glycol	%	NEG	NEG	NEG	NEG				
Fuel	%	<1.0	<1.0	<1.0	<1.0				
Silicon	ppm	A 35	9	9	2 3				
Sodium	ppm	3	2	3	4				
Potassium	ppm	■ <1	0	0	<1				
VOLVO									
WEAR METALS									
Iron	ppm	76	11	1 5	29				
Copper	ppm	4	□ <1	□ <1	2				
Lead	ppm	0	0	□ <1	 <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

< 1

61

3

40

3

< 1

< 1

0

<1

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.Aluminum ppm levels are severe. Chromium and nickel ppm levels are abnormal. Ring wear is indicated. Exhaust valve wear is indicated. Piston wear is indicated. There is a moderate concentration of dirt present in the oil. 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.

ADDITIVES									
Calcium	ppm	1779	1685	1692	1724				
Magnesium	ppm	520	529	518	540				
Zinc	ppm	1104	1153	1101	1139				
Phosphorus	ppm	916	982	973	1018				
Barium	ppm	0	0	0	0				
Boron	ppm	26	39	44	30				

< 1</p>

7

< 1

40

2

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0

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9

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40

4

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 Depot:
 SHEMIS

 Unique No:
 5749056

 Signed:
 Kevin Marson

 Report Date:
 22 Mar 2024

0

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41

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Contact/Location: Janice Cripps - SHEMIS

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO

