



CONSTRUCTION EQUIPMENT

1035048 SILICA SVCS VOLVO A40G 352889 - DIESEL ENGINE



Sample No: VCP06219254
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 1035048 SILICA SVCS



SAMPLE INFORMATION

Sample Number	VCP06219254	VCP425240	VCP398283	---
Sample Date	11 Jun 2024	13 Oct 2023	23 Feb 2023	---
Machine Hours	2415	1901	1251	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

ARNOLD MACHINERY COMPANY
 4323 EAST WINSLOW AVENUE
 PHOENIX, AZ
 US 85040
 Contact: RANDY PRZEKURAT
 randyp@arnoldmachinery.com
 T:
 F: (602)414-1904



OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	12.3	---
Base Number (BN)	mg KOH/g	8.5	8.2	9.2	---
Oxidation (PA)	%	78	72	80	---

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.3	0.3	0.2	---
Nitration (PA)	%	72	70	79	---
Sulfation (PA)	%	62	60	64	---
Glycol	%	NEG	NEG	0.0	---
Fuel	%	<1.0	<1.0	0.5	---
Silicon	ppm	8	8	14	---
Sodium	ppm	2	1	<1	---
Potassium	ppm	2	2	2	---



WEAR METALS

Iron	ppm	18	19	10	---
Copper	ppm	12	49	140	---
Lead	ppm	2	1	<1	---
Tin	ppm	2	1	2	---
Aluminum	ppm	3	2	3	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	48	54	48	---
Nickel	ppm	9	8	1	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	<1	0	<1	---
Manganese	ppm	2	<1	1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1487	1328	1774	---
Magnesium	ppm	622	677	407	---
Zinc	ppm	1197	1179	1139	---
Phosphorus	ppm	1070	882	951	---
Barium	ppm	1	10	0	---
Boron	ppm	26	22	43	---

Depot: VOLVO6174
Unique No: 11097451
Signed: Wes Davis
Report Date: 25 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS

