



CONSTRUCTION EQUIPMENT

SPM688079 US STEEL VOLVO A25G 752203 - DIESEL ENGINE



Sample No: VCP06153886
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM688079 US STEEL



SAMPLE INFORMATION

Sample Number	VCP06153886	VCP360052	VCP334790	---
Sample Date	19 Mar 2024	29 Mar 2022	18 Oct 2021	---
Machine Hours	5160	3706	846	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	NORMAL	ABNORMAL	---

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 F:



OIL CONDITION

Visc @ 100°C	cSt	10.6	13.1	10.7	---
Base Number (BN)	mg KOH/g	6.3	10.0	---	---
Oxidation (PA)	%	60	63	64	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Tests confirm the presence of fuel in the oil. No other contaminants were detected in the oil. The oil viscosity is lower than normal.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.6	0.3	0.4	---
Nitration (PA)	%	61	64	68	---
Sulfation (PA)	%	61	57	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	5.1	<1.0	0.2	---
Silicon	ppm	6	3	39	---
Sodium	ppm	3	3	0	---
Potassium	ppm	<1	<1	3	---



WEAR METALS

Iron	ppm	20	14	42	---
Copper	ppm	11	11	626	---
Lead	ppm	2	<1	<1	---
Tin	ppm	<1	1	4	---
Aluminum	ppm	6	3	0	---
Chromium	ppm	<1	<1	1	---
Molybdenum	ppm	70	68	65	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	<1	2	---
Manganese	ppm	<1	<1	4	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1476	1252	1147	---
Magnesium	ppm	359	1004	859	---
Zinc	ppm	1108	1320	1142	---
Phosphorus	ppm	947	1163	998	---
Barium	ppm	0	0	<1	---
Boron	ppm	212	56	33	---

Depot: VOLVO8885
Unique No: 10989309
Signed: Angela Borella
Report Date: 23 Apr 2024



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GRAPHS

