



CONSTRUCTION EQUIPMENT

SWA325731 HOMESFORVE CATERPILLAR GEN CATOOC32HJSJ04338 - DIESEL ENGINE



Sample No: VCP379813
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA325731 HOMESFORVE



SAMPLE INFORMATION

Sample Number	VCP379813	VCP382867	VCP355375	---
Sample Date	17 Aug 2023	08 Feb 2023	10 May 2022	---
Machine Hours	122	118	109	---
Oil Hours	4	119	5	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

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 56195 PONTIAC TRAIL
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OIL CONDITION

Visc @ 100°C	cSt	15.1	13.7	▲ 11.3	---
Base Number (BN)	mg KOH/g	9.6	10.0	11.9	---
Oxidation (PA)	%	51	53	74	---

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 acceptable for the time in service.



CONTAMINATION

Soot %	%	0	0.1	0.1	---
Nitration (PA)	%	36	40	43	---
Sulfation (PA)	%	47	49	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.4	---
Silicon	ppm	3	2	6	---
Sodium	ppm	1	0	2	---
Potassium	ppm	4	0	1	---



WEAR METALS

Iron	ppm	<1	2	5	---
Copper	ppm	2	3	4	---
Lead	ppm	<1	1	1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	58	57	35	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

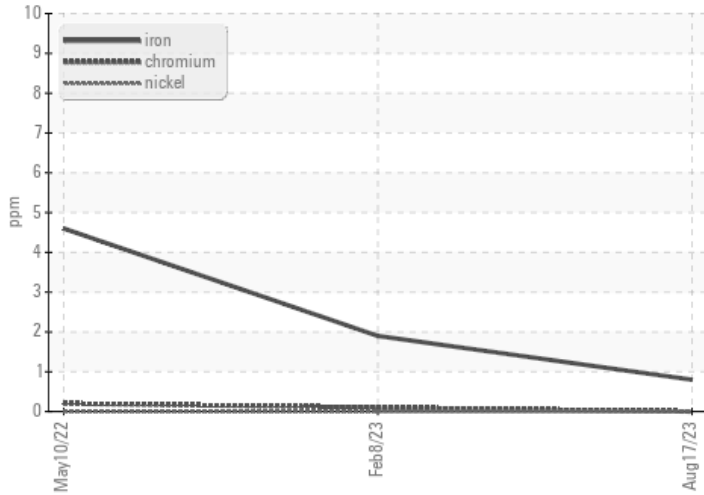
Calcium	ppm	1061	1080	1846	---
Magnesium	ppm	1005	923	447	---
Zinc	ppm	1238	1219	1149	---
Phosphorus	ppm	1021	989	934	---
Barium	ppm	0	0	0	---
Boron	ppm	0	2	67	---

Depot: VOLVO2990
Unique No: 10616581
Signed: Sean Felton
Report Date: 24 Aug 2023

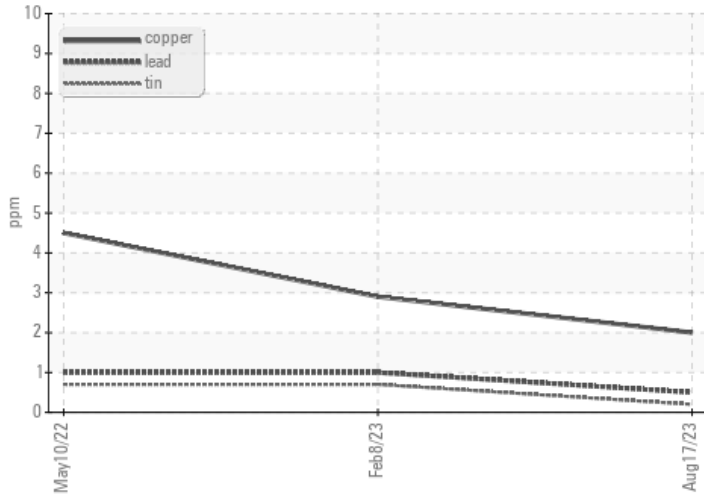


GRAPHS

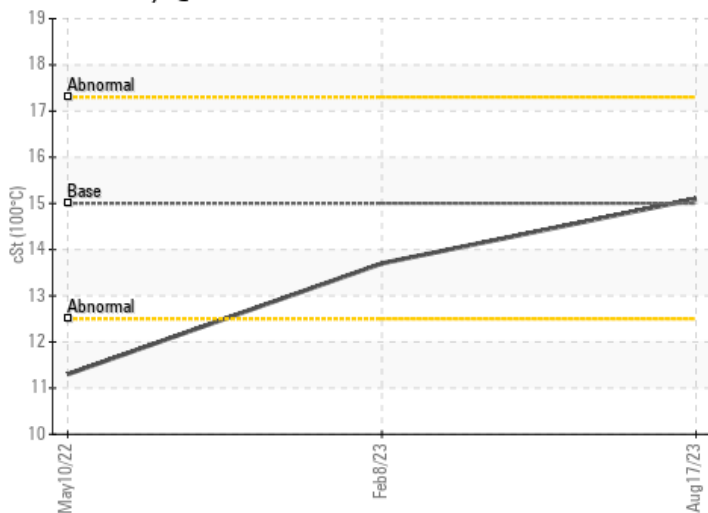
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

