



CONSTRUCTION EQUIPMENT

325741 HOMESFVETS CATERPILLAR GEN CAT00C32EJSJ04339 - DIESEL ENGINE



Sample No: VCP379814
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 325741 HOMESFVETS



SAMPLE INFORMATION

Sample Number	VCP379814	VCP382922	VCP354467	---
Sample Date	17 Aug 2023	08 Feb 2023	10 May 2022	---
Machine Hours	119	100	51	---
Oil Hours	19	50	31	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

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 56195 PONTIAC TRAIL
 NEW HUDSON, MI
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OIL CONDITION

Visc @ 100°C	cSt	14.8	12.9	▲ 11.1	---
Base Number (BN)	mg KOH/g	9.3	9.9	11.8	---
Oxidation (PA)	%	51	56	76	---

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 %	%	0.1	0.1	0.1	---
Nitration (PA)	%	38	44	45	---
Sulfation (PA)	%	47	51	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.7	---
Silicon	ppm	3	3	6	---
Sodium	ppm	1	<1	2	---
Potassium	ppm	3	0	1	---



WEAR METALS

Iron	ppm	2	5	6	---
Copper	ppm	3	5	6	---
Lead	ppm	<1	1	1	---
Tin	ppm	<1	1	1	---
Aluminum	ppm	<1	<1	1	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	57	57	36	---
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	1043	1135	1861	---
Magnesium	ppm	980	912	465	---
Zinc	ppm	1207	1207	1177	---
Phosphorus	ppm	1001	990	966	---
Barium	ppm	0	0	0	---
Boron	ppm	0	5	68	---

Depot: VOLVO2990
Unique No: 10616592
Signed: Sean Felton
Report Date: 24 Aug 2023

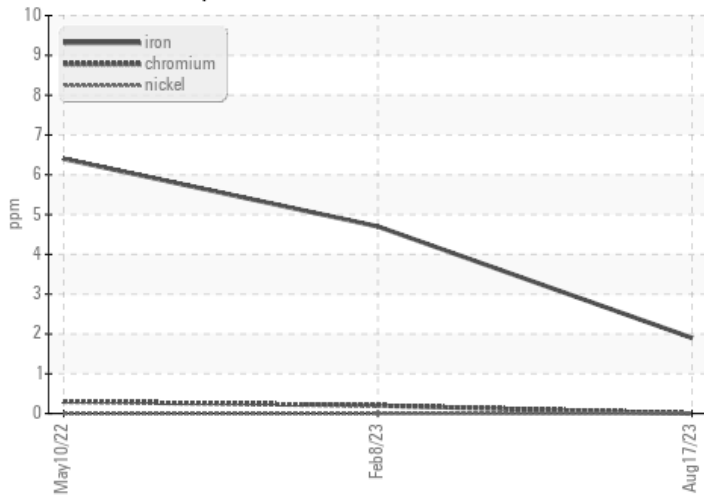


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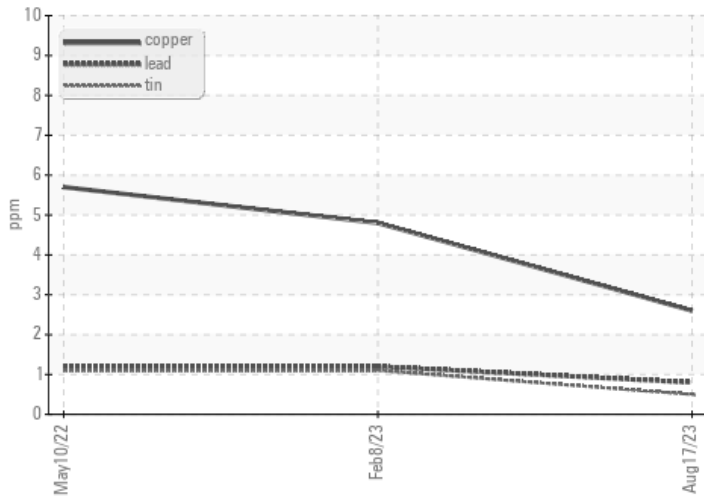


GRAPHS

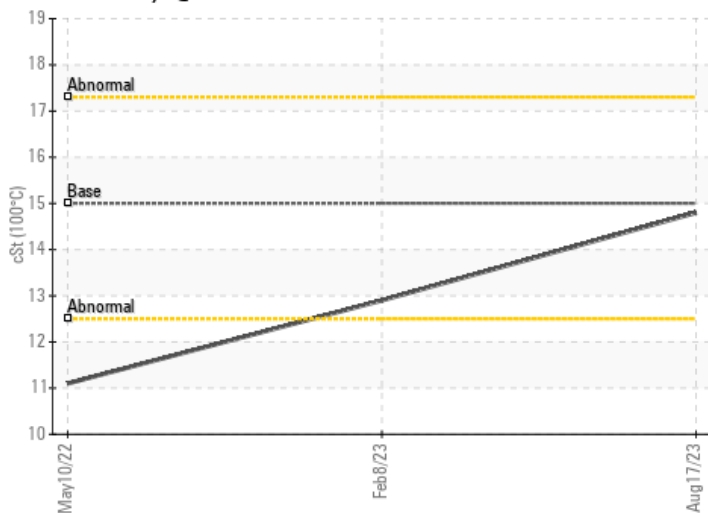
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

