



CONSTRUCTION EQUIPMENT

SW37791 WALTERS READ VOLVO L150 13278 - DIESEL ENGINE



Sample No: VCP360573
Oil Type: MOBIL 15W40
Job No: SW37791 WALTERS READ



SAMPLE INFORMATION

Sample Number	VCP360573	VCP430507	VCP064319	---
Sample Date	12 Jul 2024	14 Dec 2023	26 May 2008	---
Machine Hours	14465	14408	313	---
Oil Hours	150	7	313	---
Oil Changed	Not Chngd	Not Chngd	Changed	---
Sample Status	ABNORMAL	ATTENTION	NORMAL	---

ARNOLD MACHINERY COMPANY
 3330 NORTH YELLOWSTONE HIGHWAY
 IDAHO FALLS, ID
 US 83401
 Contact: JASON MERRILL
 jmerrill@arnoldmachinery.com
 T: (208)523-0822
 F: (208)523-9918

OIL CONDITION

Visc @ 100°C	cSt	▲ 10.6	■ 13.4	■ 12.5	---
Base Number (BN)	mg KOH/g	■ 7.0	■ 9.4	---	---
Oxidation (PA)	%	45	52	■ 51	---

Diagnosis

We recommend an early resample to monitor this condition. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.1	■ 0.1	■ 0.1	---
Nitration (PA)	%	35	36	■ 55	---
Sulfation (PA)	%	45	49	■ 50	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 2.5	■ 1.1	<1.0	---
Silicon	ppm	3	4	■ 11	---
Sodium	ppm	■ 2	■ 2	■ 0	---
Potassium	ppm	■ 4	■ 4	■ 0	---

WEAR METALS

Iron	ppm	3	<1	■ 6	---
Copper	ppm	■ 2	■ <1	■ 7	---
Lead	ppm	<1	0	■ 0	---
Tin	ppm	0	<1	■ 0	---
Aluminum	ppm	1	1	■ 0	---
Chromium	ppm	<1	0	■ 0	---
Molybdenum	ppm	40	52	■ 0	---
Nickel	ppm	<1	<1	■ 0	---
Titanium	ppm	0	0	■ 0	---
Silver	ppm	0	0	■ 0	---
Manganese	ppm	<1	<1	0	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	775	● 915	■ 2095	---
Magnesium	ppm	659	837	■ 247	---
Zinc	ppm	898	1127	■ 1120	---
Phosphorus	ppm	804	● 941	■ 1114	---
Barium	ppm	0	0	■ 0	---
Boron	ppm	5	7	■ 0	---

Depot: VOLVO0077
Unique No: 11128806
Signed: Sean Felton
Report Date: 19 Jul 2024

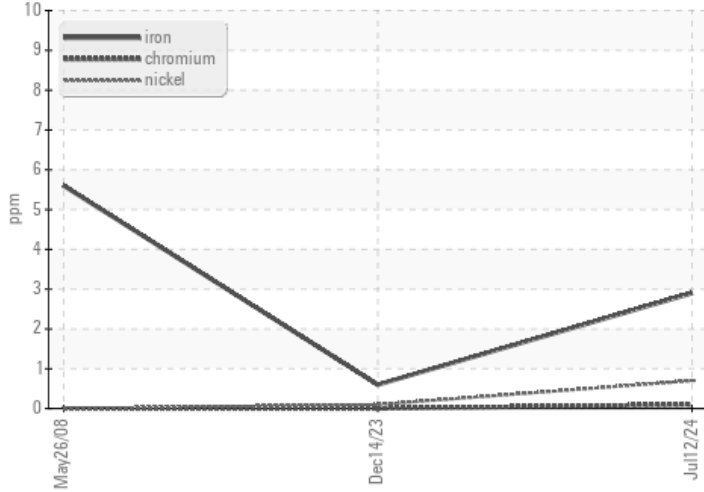


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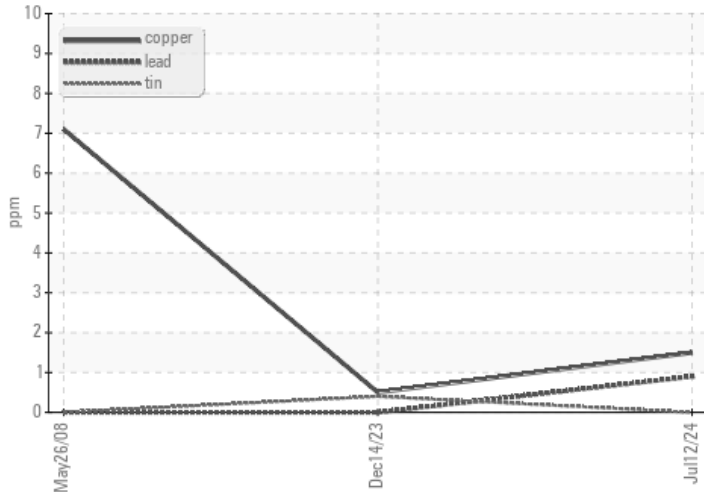


GRAPHS

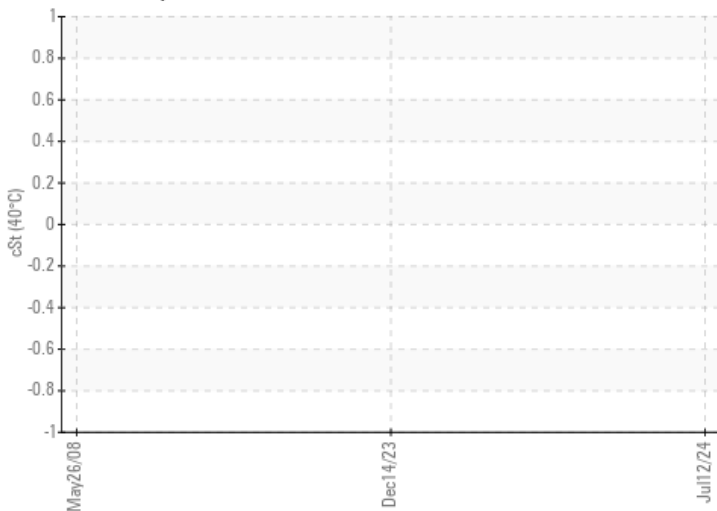
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Base Number

