



CONSTRUCTION EQUIPMENT

TMR-LANDSTREET 74117 562173 VOLVO L180H 5500 - DIESEL ENGINE



Sample No: VCP447991
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 74117



SAMPLE INFORMATION

Sample Number	VCP447991	DJJ0009627	VCP395893	VCP398647
Sample Date	13 Feb 2024	13 Apr 2023	08 Mar 2023	14 Feb 2023
Machine Hours	10264	8192	7663	7339
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

TRADEMARK METALS RECYCLING - ORLANDO - LANDSTREET
 51 EAST LANDSTREET ROAD
 ORLANDO, FL
 US 32824
 Contact: RYAN BOWDEN



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.6	13.1	13.0
Base Number (BN)	mg KOH/g	9.0	8.7	9.7	10.1
Oxidation (PA)	%	84	75	58	63

T:
 F: (407)855-3118

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	NEG
Soot %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	62	48	49	48
Sulfation (PA)	%	61	54	52	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	1	2
Sodium	ppm	<1	<1	0	2
Potassium	ppm	2	2	2	1



WEAR METALS

Iron	ppm	8	3	3	2
Copper	ppm	8	<1	2	<1
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	4	0	1	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	40	44	59	54
Nickel	ppm	1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1494	1673	1213	1218
Magnesium	ppm	439	472	881	797
Zinc	ppm	1060	1103	1234	1189
Phosphorus	ppm	911	916	1046	994
Barium	ppm	10	0	2	0
Boron	ppm	28	34	6	12

Depot: TRAORLFL
Unique No: 10885599
Signed: Wes Davis
Report Date: 20 Feb 2024

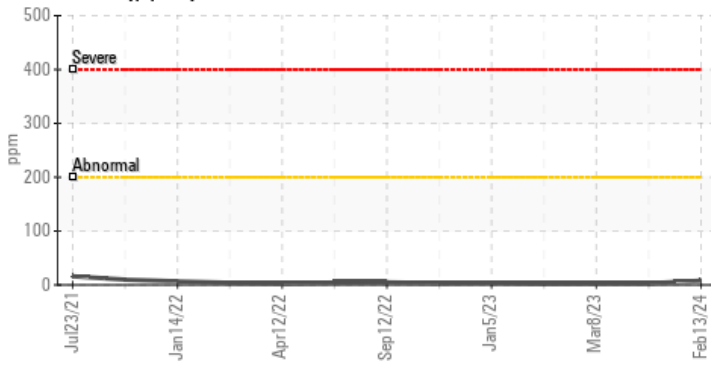


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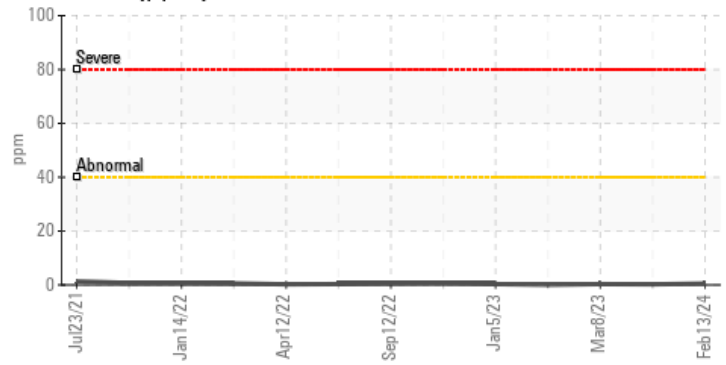


GRAPHS

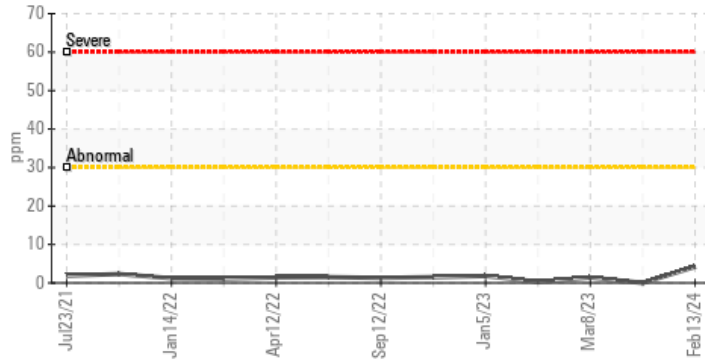
Iron (ppm)



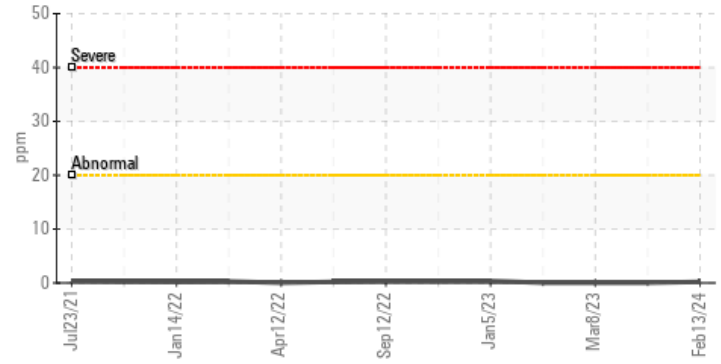
Lead (ppm)



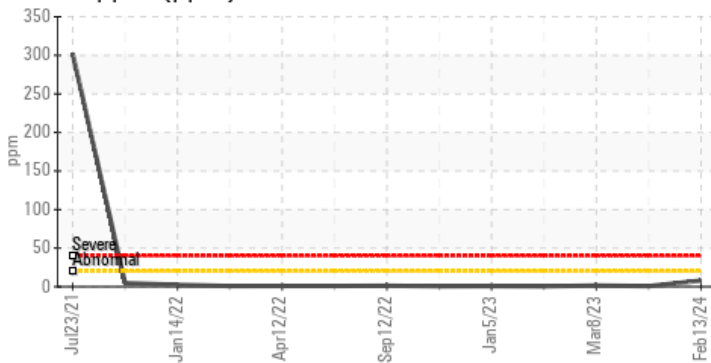
Aluminum (ppm)



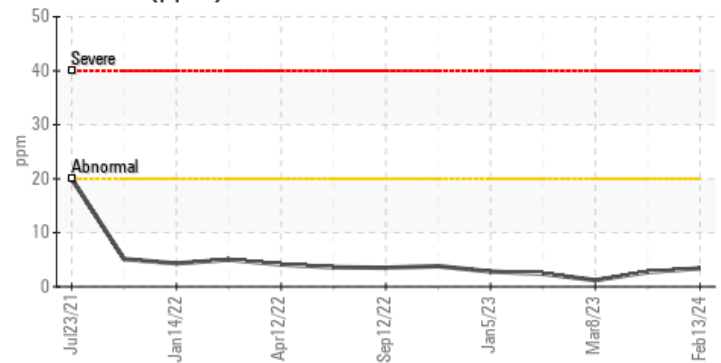
Chromium (ppm)



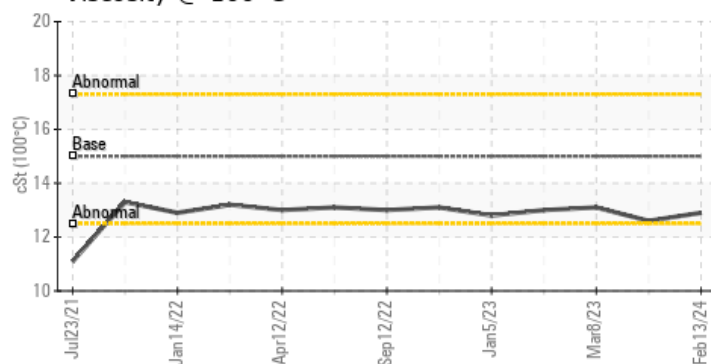
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

