



CONSTRUCTION EQUIPMENT

X52782 BRODERSON IC20 7012620 - DIESEL ENGINE



Sample No: VCE167590
Oil Type: DIESEL ENGINE OIL SAE 30
Job No: X52782



SAMPLE INFORMATION

Sample Number	VCE167590	---	---	---
Sample Date	03 Mar 2020	---	---	---
Machine Hours	160	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 11.8	---	---	---
Oxidation (PA)	%	█ 60	---	---	---



CONTAMINATION

Water	%	█ 0.118	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	█ 83	---	---	---
Sulfation (PA)	%	█ 55	---	---	---
Glycol	%	█ NEG	---	---	---
Fuel	%	█ <1.0	---	---	---
Silicon	ppm	█ 10	---	---	---
Sodium	ppm	█ 7	---	---	---
Potassium	ppm	█ 22	---	---	---

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	█ 10	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 18	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	█ 0	---	---	---



ADDITIVES

Calcium	ppm	█ 1443	---	---	---
Magnesium	ppm	█ 534	---	---	---
Zinc	ppm	█ 973	---	---	---
Phosphorus	ppm	█ 919	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 73	---	---	---

Depot: SCOSAI
Unique No: 8947319
Signed: Don Baldrige
Report Date: 06 Mar 2020



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GRAPHS

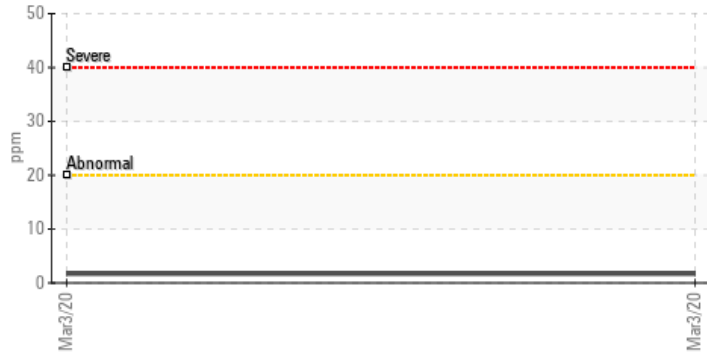
Iron (ppm)



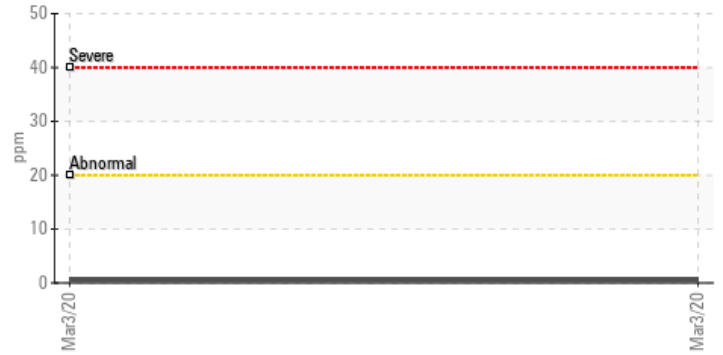
Lead (ppm)



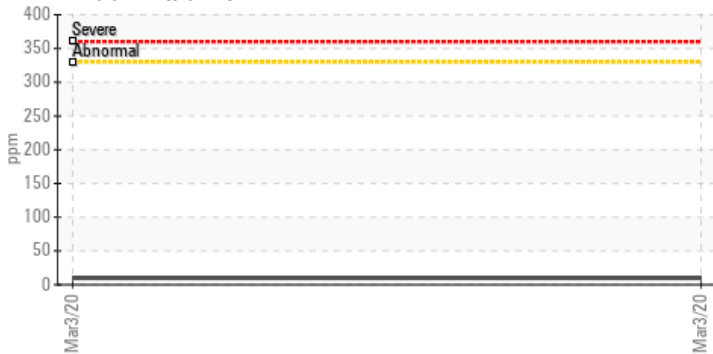
Aluminum (ppm)



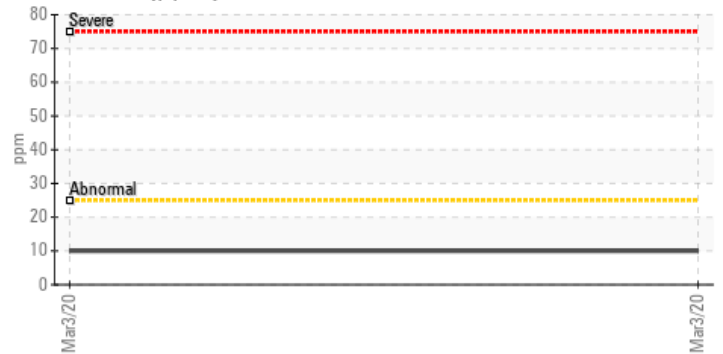
Chromium (ppm)



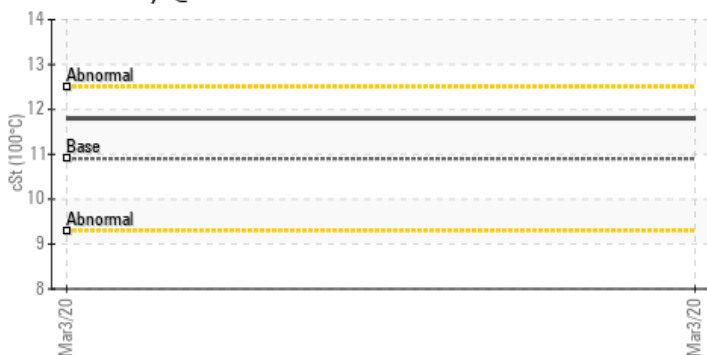
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

