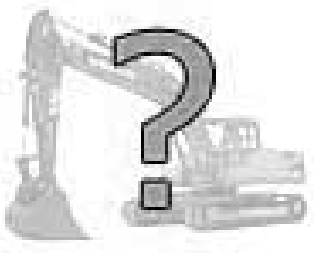
CONSTRUCTION EQUIPMENT

X59526 TADANO GR550XL-3 542269 - DIESEL ENGINE

Sample No: VCP438284
Oil Type: {unknown}
Job No: X59526



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SAMPLE INFORMATION

Sample Number		**VCP438284**	---	---	---
Sample Date		**25 Apr 2024**	---	---	---
Machine Hours		**0**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Changed**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**13.3**	---	---	---
Base Number (BN)	mg KOH/g	**4.8**	---	---	---
Oxidation (PA)	%	**74**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	**0.1**	---	---	---
Nitration (PA)	%	**79**	---	---	---
Sulfation (PA)	%	**61**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**54**	---	---	---
Sodium	ppm	**4**	---	---	---
Potassium	ppm	**3**	---	---	---

WEAR METALS

Iron	ppm	**26**	---	---	---
Copper	ppm	**211**	---	---	---
Lead	ppm	**2**	---	---	---
Tin	ppm	**<1**	---	---	---
Aluminum	ppm	**9**	---	---	---
Chromium	ppm	**1**	---	---	---
Molybdenum	ppm	**60**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**<1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**6**	---	---	---
Vanadium	ppm	**<1**	---	---	---

ADDITIVES

Calcium	ppm	**1883**	---	---	---
Magnesium	ppm	**375**	---	---	---
Zinc	ppm	**1189**	---	---	---
Phosphorus	ppm	**934**	---	---	---
Barium	ppm	**8**	---	---	---
Boron	ppm	**59**	---	---	---

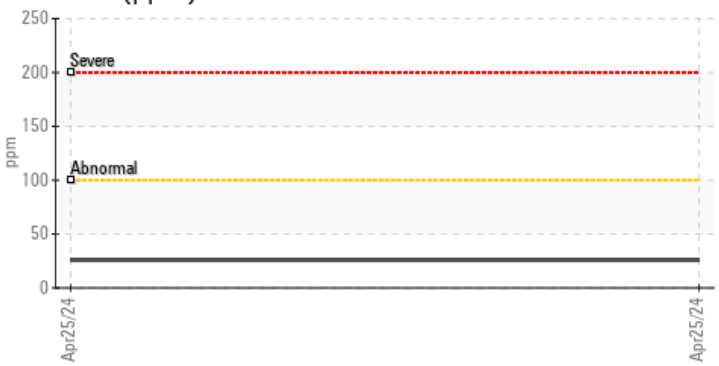
Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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.

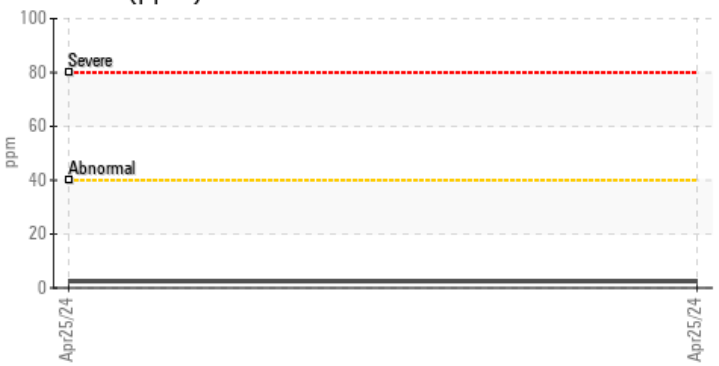
Depot: SCOSAI
Unique No: 11003240
Signed: Sean Felton
Report Date: 01 May 2024

GRAPHS

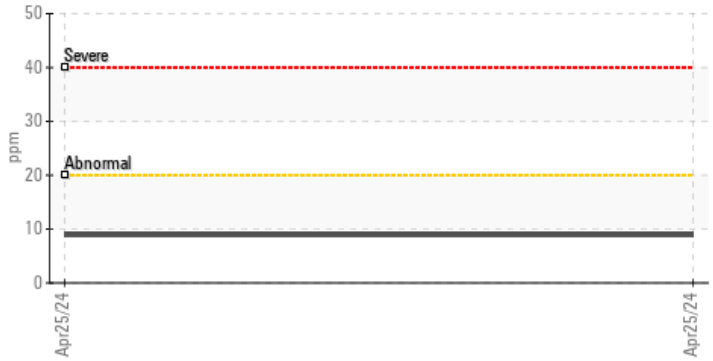
Iron (ppm)



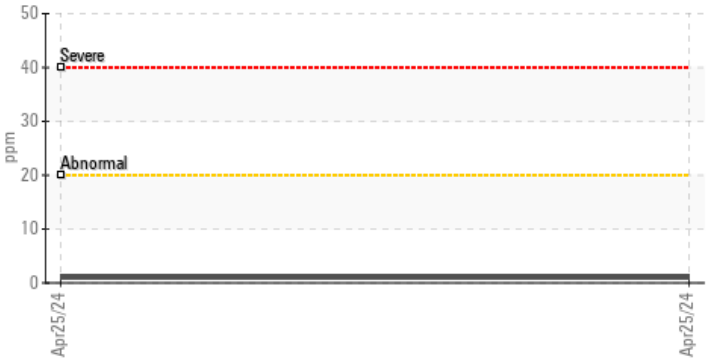
Lead (ppm)



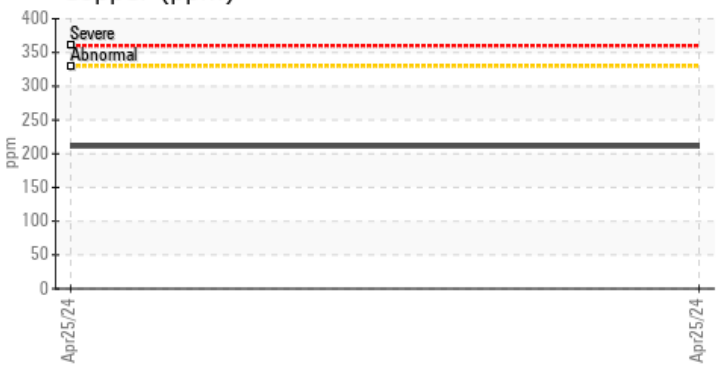
Aluminum (ppm)



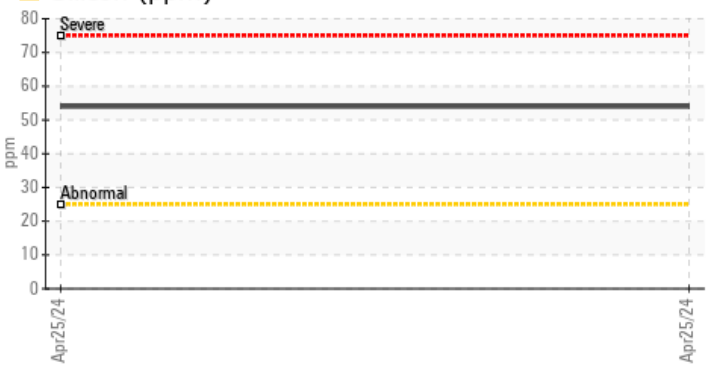
Chromium (ppm)



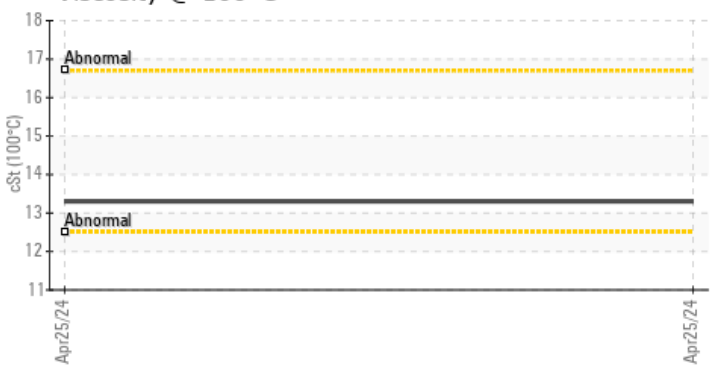
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number