



CONSTRUCTION EQUIPMENT

RANGO HITACHI EX1200-7B 7376 - REAR SWING DRIVE



Sample No: VCP388317
Oil Type: GEAR OIL SAE 90
Job No: RANGO



SAMPLE INFORMATION

Sample Number	VCP388317	---	---	---
Sample Date	24 Apr 2024	---	---	---
Machine Hours	2749	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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 4323 EAST WINSLOW AVENUE
 PHOENIX, AZ
 US 85040
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 T:
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OIL CONDITION

Visc @ 40°C	cSt	█ 180	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	▲ 42	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 1	---	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	█ 104	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	● 4	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 15	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 76	---	---	---
Magnesium	ppm	█ 6	---	---	---
Zinc	ppm	█ 47	---	---	---
Phosphorus	ppm	557	---	---	---
Barium	ppm	█ 6	---	---	---
Boron	ppm	█ 86	---	---	---

Depot: VOLVO6174
Unique No: 11020328
Signed: Angela Borella
Report Date: 13 May 2024

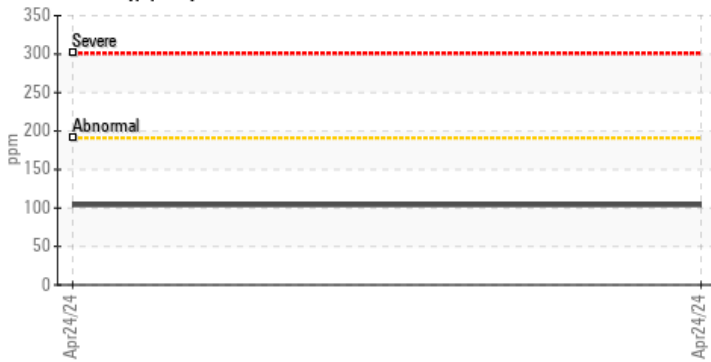


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GRAPHS

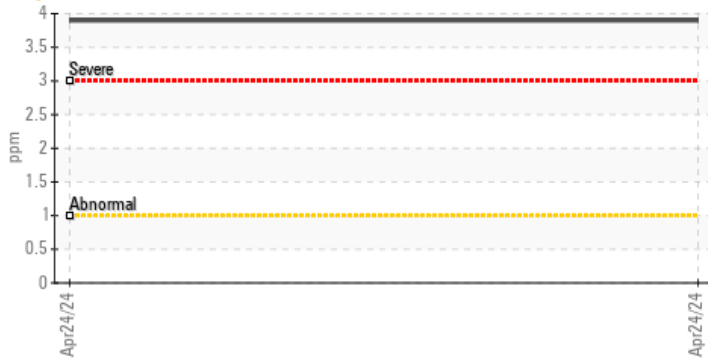
Iron (ppm)



Lead (ppm)



Aluminum (ppm)



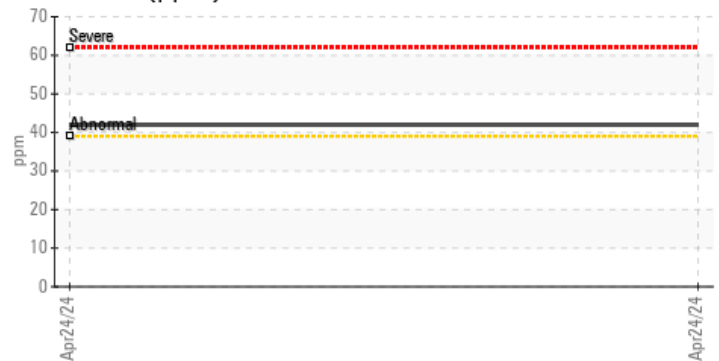
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

