CONSTRUCTION EQUIPMENT

W07013191-3 VOLVO A40F 11087 - REAR AXLE

Sample No: VCP407996
Oil Type: GEAR OIL SAE 75W80
Job No: W07013191-3

KYANITE MINING CORPORATION
PO BOX 486
DILLWYN, VA
US 23936
Contact: SERVICE MANAGER

T: (804)983-2085
F:

SAMPLE INFORMATION

Sample Number		**VCP407996**	VCE166046	VCP123681	---
Sample Date		**18 Oct 2023**	06 May 2013	11 Jul 2012	---
Machine Hours		**16211**	4065	2283	---
Oil Hours		**0**	0	0	---
Oil Changed		**Changed**	Changed	Changed	---
Sample Status		**ABNORMAL**	ATTENTION	ABNORMAL	---

OIL CONDITION

Visc @ 40°C	cSt	**104**	310.3	64.18	---

CONTAMINATION

Silicon	ppm	**73**	3	9	---
Sodium	ppm	**4**	3	2	---
Potassium	ppm	**4**	<1	5	---

WEAR METALS

Iron	ppm	**352**	37	151	---
Copper	ppm	**6**	<1	2	---
Lead	ppm	**<1**	0	<1	---
Tin	ppm	**0**	0	<1	---
Aluminum	ppm	**17**	<1	2	---
Chromium	ppm	**1**	<1	2	---
Molybdenum	ppm	**3**	<1	8	---
Nickel	ppm	**1**	<1	<1	---
Titanium	ppm	**2**	<1	4	---
Silver	ppm	**0**	<1	0	---
Manganese	ppm	**8**	1	13	---
Vanadium	ppm	**0**	0	0	---

ADDITIVES

Calcium	ppm	**120**	36	91	---
Magnesium	ppm	**4**	2	0	---
Zinc	ppm	**123**	24	16	---
Phosphorus	ppm	**1320**	910	1457	---
Barium	ppm	**10**	0	0	---
Boron	ppm	**53**	145	172	---

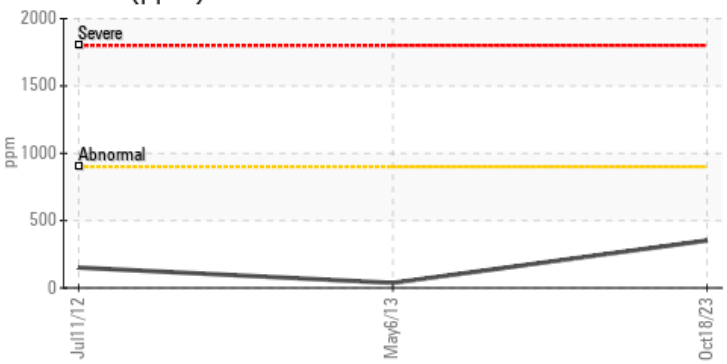
Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. 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.

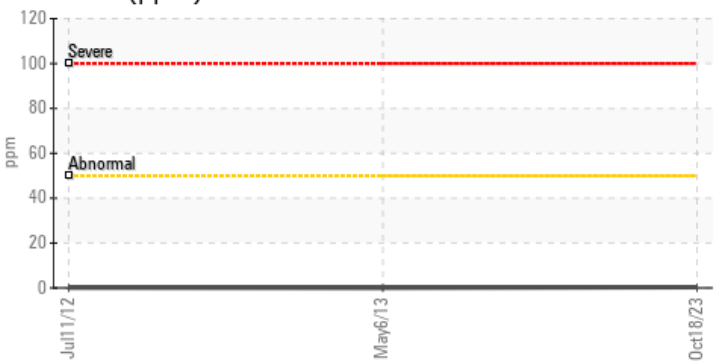
Depot: KYADIL
Unique No: 10710248
Signed: Sean Felton
Report Date: 25 Oct 2023

GRAPHS

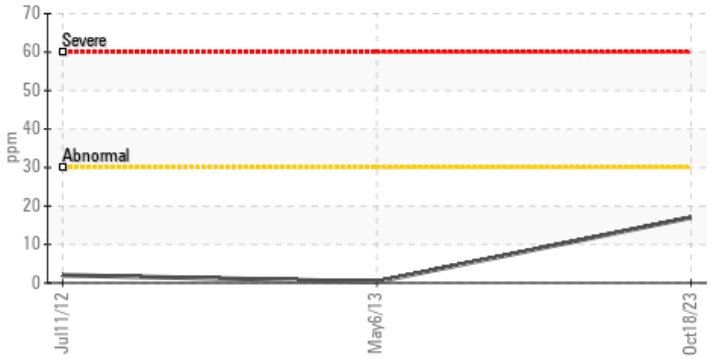
Iron (ppm)



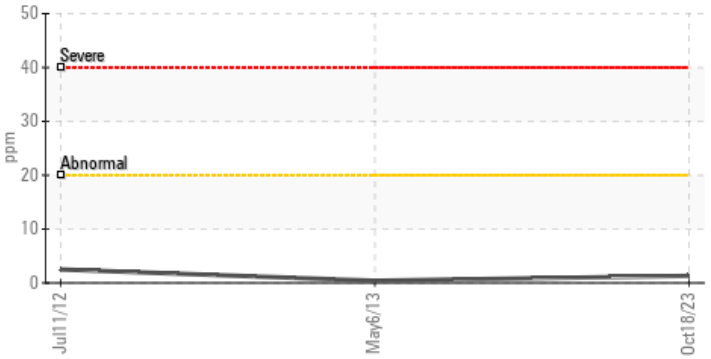
Lead (ppm)



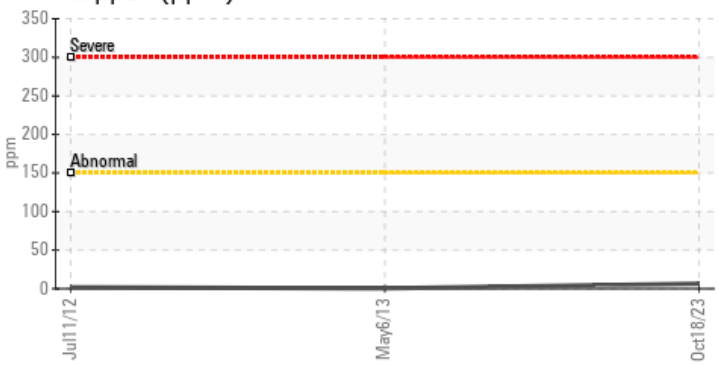
▲ Aluminum (ppm)



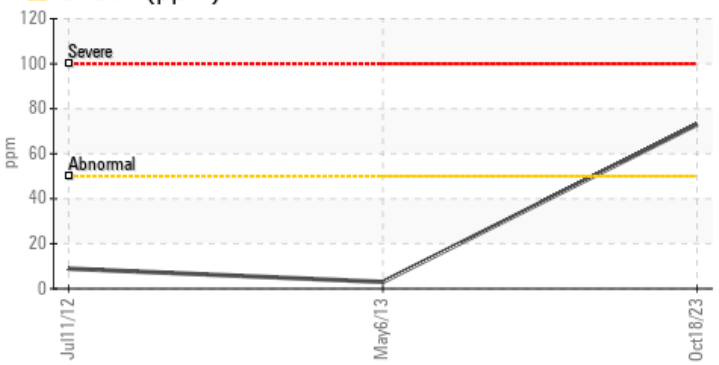
Chromium (ppm)



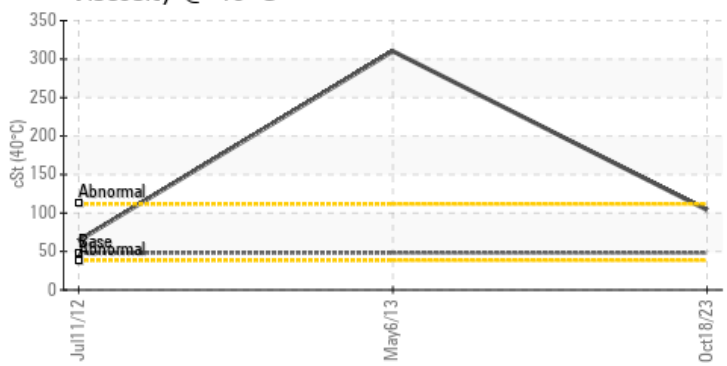
Copper (ppm)



▲ Silicon (ppm)



Viscosity @ 40°C



Additives