CONSTRUCTION EQUIPMENT 274 JOHN DEERE 524K-II 1DW524KZVHF679355 - DIESELENGI

Sample No: VCP413814 Oil Type: SHELL ROTELLA T 15W40

VOLVO

Oil Type:	SHELL ROTELLA I
Job No:	274

SAMPLE INFORMATION

Sample Number	-	VCP413814	VCP217493	
Sample Date		15 Nov 2023	26 Sep 2017	
Machine Hours		5950	499	
Oil Hours		500	499	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	ABNORMAL	
OIL CONDI				
Visc @ 100°C	cSt	13.2	10.63	
Base Number (BN)	mg KOH/g	4.9		
Oxidation (PA)	%	64	64	
	ATION			
Water	%	NEG	NEG	
Soot %	%	0.6	0.2	
Nitration (PA)	%	78	67	
Sulfation (PA)	%	58	61	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	8	9	
Sodium	ppm	2	11	
Potassium	ppm	6	4	

OLVO

WEAR I	METALS			
Iron	ppm	18	56	
Copper	ppm	1	▲ 576	
Lead	ppm	■<1	0	
Tin	ppm		10	
Aluminum	ppm	2	6	
Chromium	ppm		<1	
Molybdenum	ppm	38	280	
Nickel	ppm	1	2	
Titanium	ppm	<1	0	
Silver	ppm	0	0	
Manganese	ppm	□<1	4	
Vanadium	ppm	<1	0	

ADDITIVES					
Calcium	ppm	1795	1429		
Magnesium	ppm	282	876		
Zinc	ppm	1156	1018		
Phosphorus	ppm	956	846		
Barium	ppm	12	0		
Boron	ppm	53	161		



TOTAL DEVELOPMENT SOLUTIONS LLC

7805 PROGRESS CT GAINESVILLE, VA US 20155 Contact: JOE SEALE jseale@totaldevelopmentsolutions.com T: (703)222-0497 F: (703)753-4586

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.

 Depot:
 TOTGAI

 Unique No:
 10791735

 Signed:
 Wes Davis

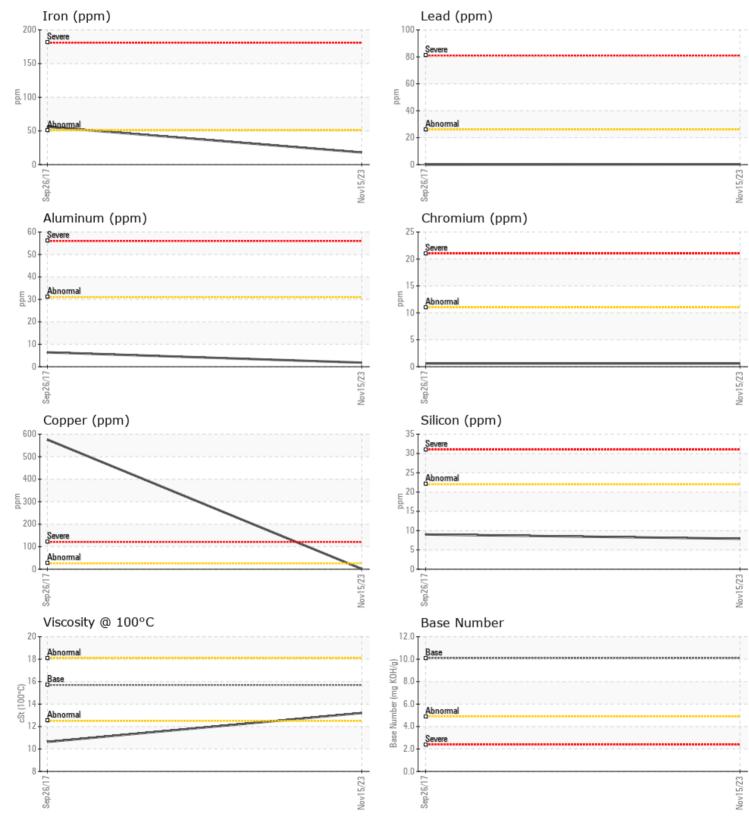
 Report Date:
 18 Dec 2023

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Report Id: TOTGAI [WUSCAR] 06036506 (Generated: 12/19/2023 15:55:31) Rev: 1

Contact/Location: JOE SEALE - TOTGAI