Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: 717434 BULK EXPRESS

VOLVO						
SAMPLE IN	NFORMATION					
Sample Number	•	VCP436035				
Sample Date		04 Jun 2024				
Machine Hours		2467				
Oil Hours		0				
Oil Changed		Changed				
Sample Status		ABNORMAL				
OIL CONDI.	TION					
Visc @ 100°C	cSt	13.0				
		7.9				
Base Number (BN) Oxidation (PA)	%	75				
Oxidation (FA)	70	75				
VOLVO						
CONTAMIN	NATION					
Water	%	NEG				
Soot %	%	■0.2				
Nitration (PA)	%	73				
Sulfation (PA)	%	57				
Glycol	%	NEG				
Fuel	%	<1.0				
Silicon	ppm	<u>▲</u> 51				
Sodium	ppm	■ 2				
Potassium	ppm	■ 0				
VOLVO						
WEAR ME	TALS					
Iron	ppm	11				
Copper	ppm	2				
Lead	ppm	■ <1				
Tin	ppm	■<1				
Aluminum	ppm	■3				
Chromium	ppm	■<1				
Molybdenum	ppm	■ 57				
Nickel	ppm	0				
Titanium	ppm	0				
Silver	ppm	■ 0				
Manganese	ppm	■ <1				
Vanadium	ppm	<1				
ADDITIVES						
_		1447				
Calcium Magnesium	ppm	1447				
Zinc	ppm	890 1315				
Phosphorus	ppm	■ 1315 ■ 1043				
Barium	ppm	■ 1043 ■ 0				
Dallulli	ppm	■ 0				

ALTA EQUIPMENT COMPANY

5210 REESE ROAD
DAVIE, FL
US 33314
Contact: N. FACEY
nfacey@altaequipfl.com
T: (954)581-4744
F: (954)583-0318

Diagnosis

Oil and filter 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:VOLVO0095Unique No:11069862Signed:Sean FeltonReport Date:11 Jun 2024

Contact/Location: N. FACEY - VOLVO0095

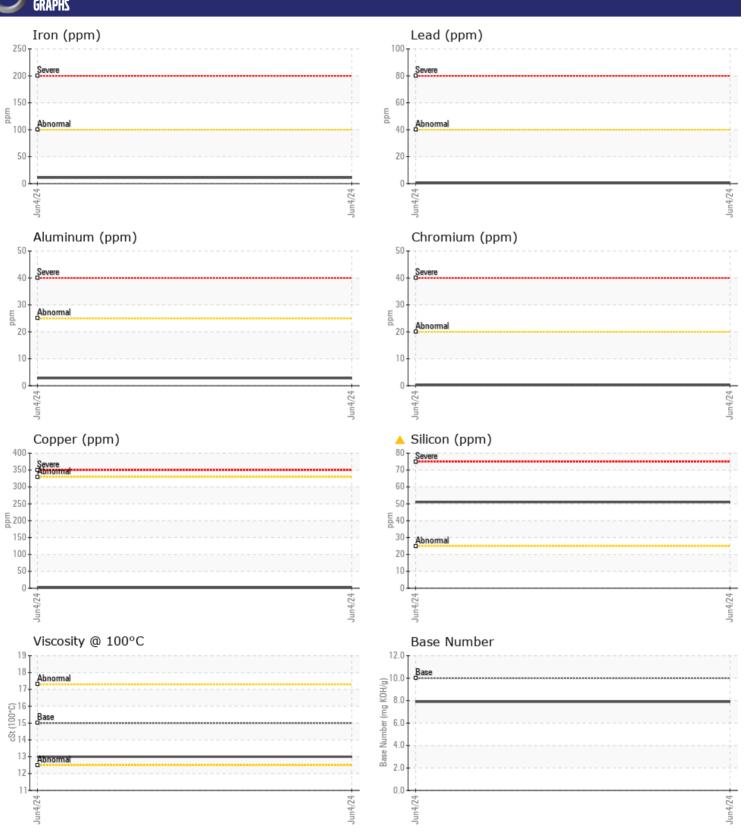
ppm

Boron









Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No: 717434 BULK EXPRESS

VOLVO						
SAMPLE II	NFORMATION					
Sample Number	-	VCP454657				
Sample Date		04 Jun 2024				
Machine Hours		2467				
Oil Hours		0				
Oil Changed		Changed				
Sample Status		ABNORMAL				
VOLVO						
OIL CONDI	TION					
Visc @ 40°C	cSt	41.0				
Acid Number (AN)	ma KOH/a	■0.61				
	<i>y</i> , , <i>y</i>					
CONTAMIN	AATION					
_			- <u>-</u> -			
Water	%	NEG				
Silicon	ppm	6				
Sodium	ppm	■1				
Potassium	ppm	■1				
VOLVO						
WEAR ME	TALS					
Iron	ppm	5				
Copper	ppm	40				
Lead	ppm	<1				
Tin	ppm	<1				
Aluminum	ppm	2				
Chromium	ppm	■<1				
Molybdenum	ppm	■ 0				
Nickel	ppm	■ 0				
Titanium	ppm	<1				
Silver	ppm	0				
Manganese	ppm	0				
Vanadium	ppm	0				
ADDITIVES						
Calcium	ppm	80				
Magnesium	ppm	1				
Zinc	ppm	■ 571				
Phosphorus	ppm	445				
Barium	ppm	■0				
Boron	ppm	■0				
	1 1000					

ALTA EQUIPMENT COMPANY

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Diagnosis

The oil change at the time of sampling has been noted. We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

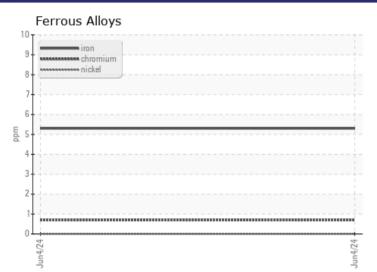
Depot:VOLVO0095Unique No:11070111Signed:Don BaldridgeReport Date:10 Jun 2024







GRAPHS



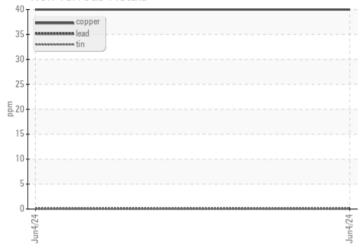
Non-ferrous Metals

Viscosity @ 40°C

42

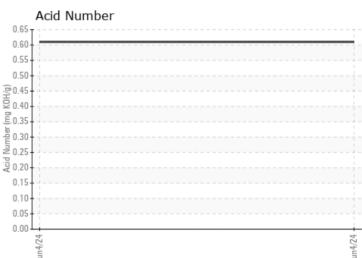
40

Abnormal









Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5

Job No: 717434 BULK EXPRESS

VOLVO						
SAMPLE	INFORMATION					
Sample Number	-	VCP445696				
Sample Date		04 Jun 2024				
Machine Hours		2467				
Oil Hours		0				
Oil Changed		Changed				
Sample Status		NORMAL				
OIL COND	ITION					
Visc @ 40°C	cSt	170				
CONTAM	INATION					
Water	%	NEG				
Silicon	ppm	■31				
Sodium	ppm	2				
Potassium	ppm	■ 0				
VOLVO						
WEAR M	ETALS					
Iron	ppm	■283				
Copper	ppm	42				
Lead	ppm	■ 0				
Tin	ppm	■ <1				
Aluminum	ppm	■ <1				
Chromium	ppm	■3				
Molybdenum	ppm	■0				
Nickel	ppm	0				
Titanium	ppm	0				
Silver	ppm	0				
Manganese	ppm	6				
Vanadium	ppm	0				
VOLVO						
ADDITIVI	2					
Calcium	ppm	■38				
Magnesium	ppm	■ <1				
Zinc	ppm	■ 45				
Phosphorus	ppm	■312				
Barium	ppm	■3				
Boron	ppm	■ 0				

ALTA EQUIPMENT COMPANY

5210 REESE ROAD DAVIE, FL US 33314 Contact: N. FACEY nfacey@altaequipfl.com T: (954)581-4744 F: (954)583-0318

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.

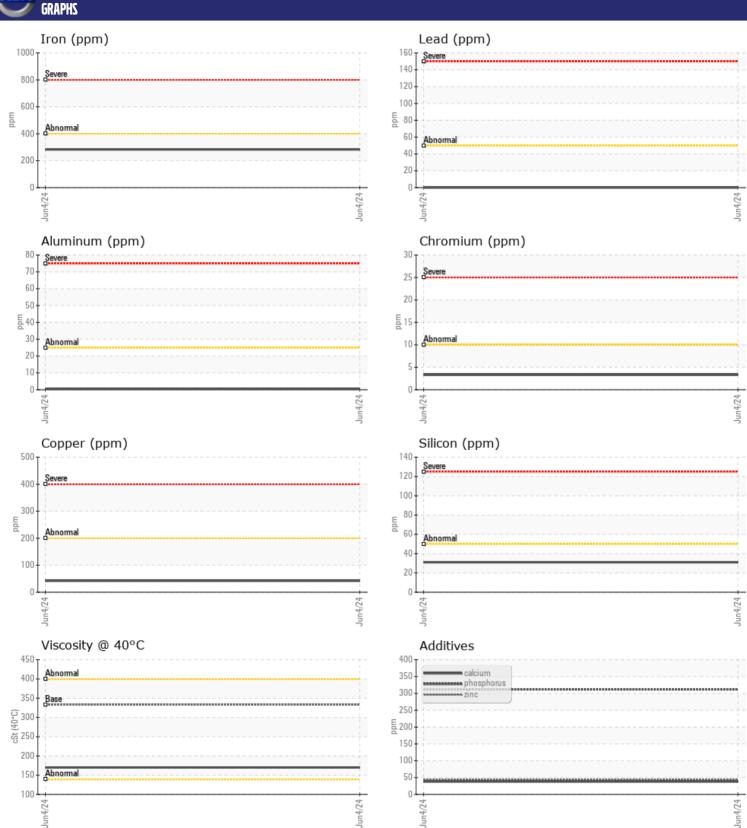
Depot:VOLVO0095Unique No:11070535Signed:Don BaldridgeReport Date:10 Jun 2024

Contact/Location: N. FACEY - VOLVO0095









Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5

Job No: 717434 BULK EXPRESS

VOLVO				
SAMPLE	INFORMATIO	N		
Sample Number	_	VCP454774	 	
Sample Date		04 Jun 2024	 	
Machine Hours		2467	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	166	 	
V13C @ 40 C	CSt	100		
VOLVO				
CONTAN	MINATION			
Water	%	NEG	 	
Silicon	ppm	■20	 	
Sodium	ppm	■ 3	 	
Potassium	ppm	■ 3	 	
VOLVO				
WEAR N	METALS			
Iron	ppm	<u> </u>	 	
Copper	ppm	<u></u> <1	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	■<1	 	
Chromium	ppm	7	 	
Molybdenum	ppm	■<1	 	
Nickel	ppm	■<1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	■8	 	
Vanadium	ppm	0	 	
ADDITIV	JFC			
	_	-42		
Calcium	ppm	12	 	
Magnesium	ppm	1	 	
Zinc	ppm	29	 	
Phosphorus	ppm	250	 	
Barium	ppm	0	 	
Boron	ppm	■0	 	

ALTA EQUIPMENT COMPANY

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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. Gear wear is indicated. All other 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.

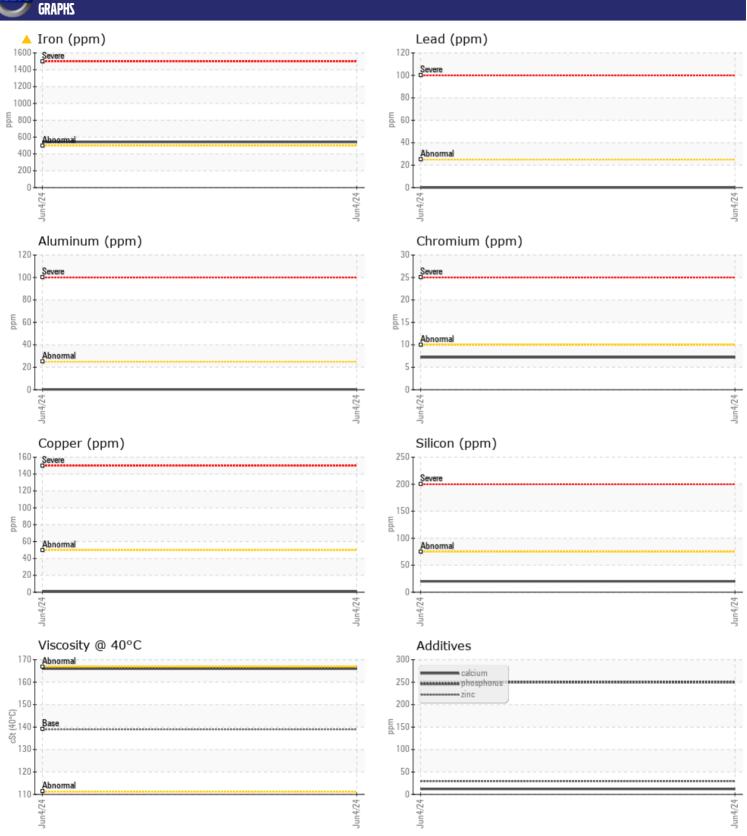
Depot:VOLVO0095Unique No:11070538Signed:Don BaldridgeReport Date:10 Jun 2024

Contact/Location: N. FACEY - VOLVO0095









Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5

Job No: 717434 BULK EXPRESS

VOLVO						
SAMPLE	INFORMATION					
Sample Number		VCP454853				
Sample Date		04 Jun 2024				
Machine Hours		2467				
Oil Hours		0				
Oil Changed		Changed				
Sample Status		ABNORMAL				
VOLVO						
OIL COND	DITION					
Visc @ 40°C	cSt	166				
CONTAM	INATION					
_		_				
Water	%	NEG				
Silicon	ppm	18				
Sodium	ppm	■3				
Potassium	ppm	■ 4				
VOLVO						
WEAR M	ETALS					
Iron	ppm	<u></u> 541				
Copper	ppm	■ <1				
Lead	ppm	0				
Tin	ppm	■0				
Aluminum	ppm	■ <1				
Chromium	ppm	■ 7				
Molybdenum	ppm	1				
Nickel	ppm	■0				
Titanium	ppm	0				
Silver	ppm	0				
Manganese	ppm	■8				
Vanadium	ppm	0				
ADDITIVES						
Calcium	ppm	■ 9				
Magnesium	ppm	<1				
Zinc	ppm	29				
Phosphorus	ppm	240				
Barium	ppm	O				
Boron	ppm	■0				

ALTA EQUIPMENT COMPANY

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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. Gear wear is indicated. All other 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.

Depot:VOLVO0095Unique No:11070539Signed:Don BaldridgeReport Date:10 Jun 2024







