

SW0598136 JOHN DEERE 350G LC 1FF350GXKDE809571 - DIESEL ENG

Sample No: VCP306413

Oil Type: DIESEL ENGINE OIL SAE 15W40

Job No: SWO598136

SAMPLE	INFORMATION			
Sample Number	-	VCP306413	 	
Sample Date		20 Apr 2021	 	
Machine Hours		5356	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL COND	ITION			
Visc @ 100°C	cSt	14.1	 	
Oxidation (PA)	%	72	 	
CONTAM	INATION			
Water	%	NEG	 	
Soot %	%	■0.8	 	
Nitration (PA)	%	88	 	
Sulfation (PA)	%	65	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	5	 	
Sodium	ppm	■<1	 	
Potassium	ppm	5	 	
WEAR M	ETALS			
Iron	ppm	7 6	 	
Copper	ppm	2	 	
Lead	ppm	2	 	
Tin	ppm	■ <1	 	
Aluminum	ppm	4	 	
Chromium	ppm	2	 	
Molybdenum	ppm	63	 	
Nickel	ppm	2	 	
Titanium	ppm	64	 	
Silver	ppm	<1	 	
	nnm	 < 1	 	
Manganese Vanadium	ppm			



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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:ACQELMUnique No:9486403Signed:Jonathan HesterReport Date:03 May 2021

1669

551

1213

1030

0

45

ADDITIVES

ppm

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

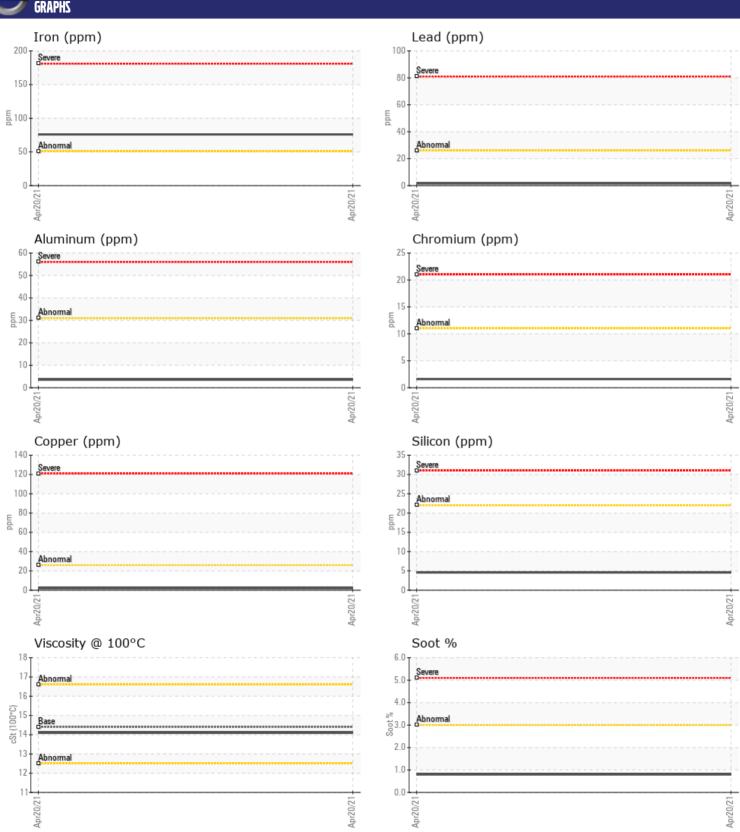
Magnesium

Phosphorus











W0598136 JOHN DEERE 350G LC 1FF350GXKDE809571 - HYDRAULIC SYSTE

 Sample No:
 VCP306416

 Oil Type:
 SAE 10W30

 Job No:
 SWO598136

CVMDLEI	NFORMATION			
	AFURMATIUN			
Sample Number		VCP306416	 	
Sample Date		20 Apr 2021	 	
Machine Hours		5356	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
VOLVO				
OIL CONDI	TION			
Visc @ 40°C	cSt	44.9	 	
Acid Number (AN)		0.293	 	
	, 9			
VOLVO	IATION			
CONTAMIN	-			
Water	%	NEG	 	
Silicon	ppm	■2	 	
Sodium	ppm	1	 	
Potassium	ppm	■ 0	 	
WEAR ME	TALS			
Iron	ppm	7	 	
Copper	ppm	1	 	
Lead	ppm	■ <1	 	
Tin	ppm	0	 	
Aluminum	ppm	1	 	
Chromium	ppm	□ <1	 	
Molybdenum	ppm	= <1	 	
Nickel	ppm	0	 	
Titanium	ppm	■<1	 	
Silver	ppm	<1	 	
Manganese	ppm	■<1	 	
Vanadium	ppm	0	 	
	h h			
VOLVO				
ADDITIVE	7			
Calcium	ppm	■219	 	
Magnesium	ppm	■ 4	 	
Zinc	ppm	<u> </u>	 	
Phosphorus	ppm	■ 513	 	
Barium	ppm	■0	 	
Boron	ppm	■ 3	 	



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Diagnosis

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil. Oil and filter change at the time of sampling has been noted. 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. Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

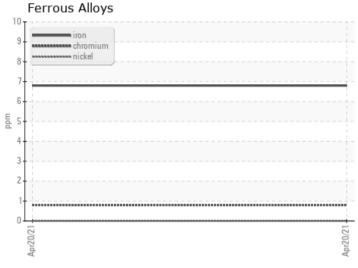
Depot:ACQELMUnique No:9486107Signed:Jonathan HesterReport Date:03 May 2021



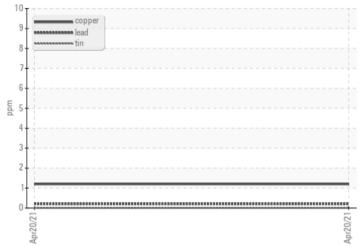




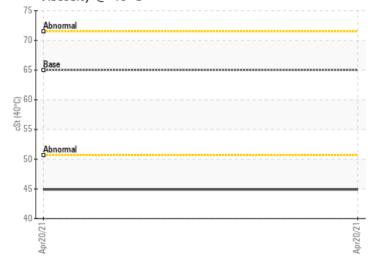
GRAPHS



Non-ferrous Metals



Viscosity @ 40°C



Acid Number





Sample No: VCP315352
Oil Type: SAE 30W
Job No: SWO598136

Boron

VOLVO	INFORMATION			
	INFORMATION			
Sample Number		VCP315352	 	
Sample Date		20 Apr 2021	 	
Machine Hours		5356	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CON	DITION			
Visc @ 40°C	cSt	144	 	
		_		
VOLVO	UNATION			
LUNIAM	IINATION			
Water	%	NEG	 	
Silicon	ppm	2	 	
Sodium	ppm	■ <1	 	
Potassium	ppm	■<1	 	
WEAR M	IETALS			
Iron	ppm	2 4	 	
Copper	ppm	■<1	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	■ 0	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	■<1	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	■<1	 	
Vanadium	ppm	0	 	
ADDITIV	ES			
Calcium	ppm	40	 	
Magnesium	ppm	■9	 	
Zinc	ppm	■4	 	
Phosphorus	ppm	■674	 	
Barium	ppm	■0	 	
-	1 F	= 11		



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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:ACQELMUnique No:9486481Signed:Don BaldridgeReport Date:03 May 2021

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