WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL



[5480] Machine Id 352150 Component

Hydraulic System

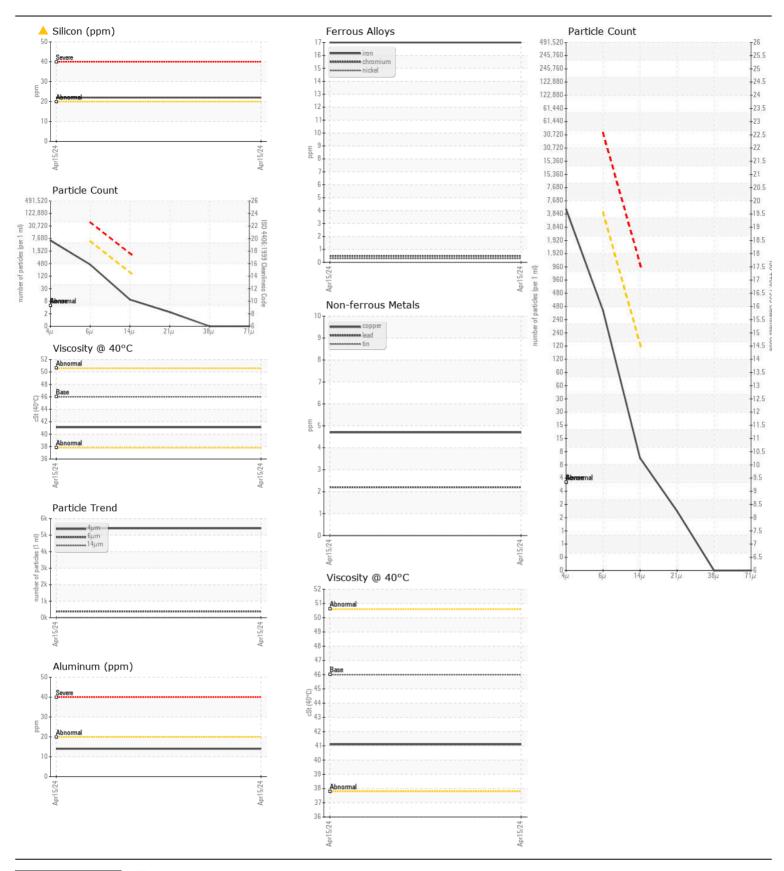
VOLVO SUPER HYDRAULIC O	IL 46 ( GA	L)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		VCP392989		
	Sample Date		Client Info		15 Apr 2024		
	Machine Age	hrs	Client Info		5936		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185(m)		17		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		<1		
	Nickel	ppm	ASTM D5185(m)	>10	<1		
	Titanium	ppm	ASTM D5185(m)		<1		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)		14		
	Lead	ppm	ASTM D5185(m)		2		
	Copper	ppm	ASTM D5185(m)		5		
	Tin	ppm	ASTM D5185(m)	>20	0		
	Vanadium	ppm	ASTM D5185(m)	NONE	0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION  Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The system cleanliness is acceptable for your target ISO 4406 cleanliness code.	Silicon	ppm	ASTM D5185(m)		<u>^</u> 22		
	Potassium	ppm	ASTM D5185(m)		<1		
	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647	=000	5407		
	Particles >6µm		ASTM D7647		380		
	Particles >14µm		ASTM D7647		8		
	Particles >21µm		ASTM D7647		2		
	Particles >38µm		ASTM D7647		0		
	Particles >71µm Oil Cleanliness		ASTM D7647		0 20/16/10		
	Silt	scalar	ISO 4406 (c) Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance		Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water		Visual*	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2		
TEGID GONDINGN	Boron	ppm	ASTM D5185(m)	14	<1		
The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185(m)	0.0	0		
	Molybdenum	ppm	ASTM D5185(m)		0		
	Manganese	ppm	ASTM D5185(m)	0.0	0		
	Magnesium	ppm	ASTM D5185(m)		4		
	Calcium	ppm	ASTM D5185(m)	49	70		
	Phosphorus	ppm	ASTM D5185(m)	354	314		
	Zinc	ppm	ASTM D5185(m)		408		
	Sulfur	ppm	ASTM D5185(m)	3719	1738		
	\" \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.	ACTAL DECEM	4.0		•	

Visc @ 40°C

cSt

ASTM D7279(m) 46

41.1





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : VCP392989

: 02630607 Unique Number : 5763739

Validity of results and interpretation are based on the sample and information as supplied.

Received **Tested** Diagnosed Test Package : MOB 1 ( Additional Tests: PrtCount )

: 22 Apr 2024 : 23 Apr 2024

: 23 Apr 2024 - Kevin Marson

**GREAT WEST EQUIPMENT** 1600 KOSMINA ROAD, 123 L&A CROSS RD VERNON, BC CA V1T 8T2

> Contact: Sarah Lawrence slawrence@gwequipment.com T: (866)627-2357

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Contact/Location: Sarah Lawrence - MARVER

F: (250)549-3397