WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL ABNORMAL NORMAL

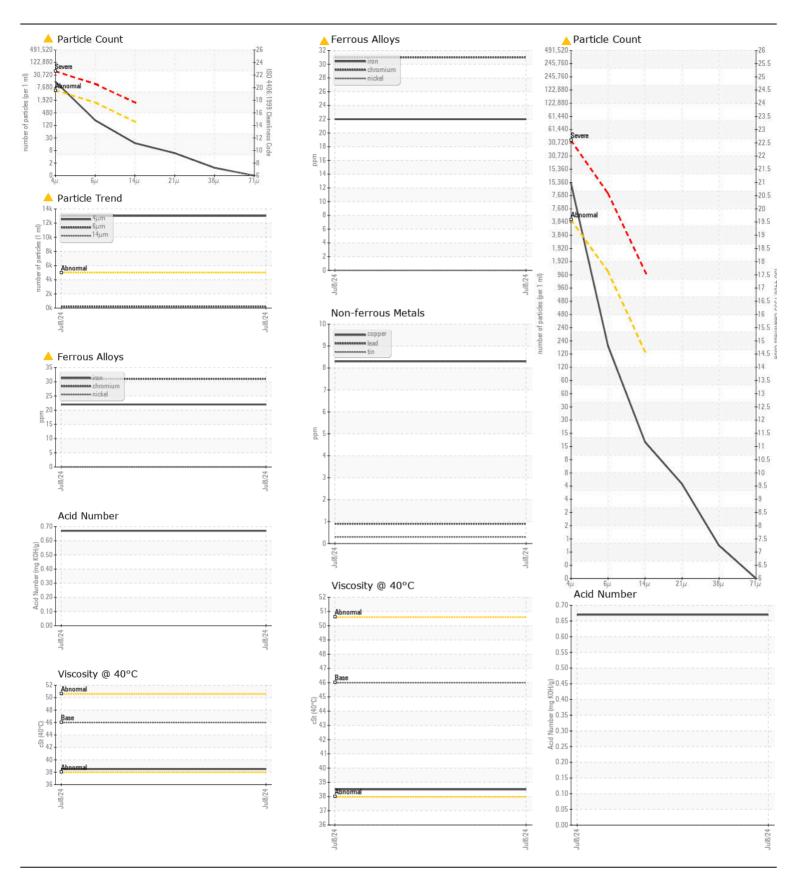


[SPM742835 WASTE MGMT]
CATERPILLAR 336 DKS10115

Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn		History1	History2
No corrective action is recommended at this time. We recommend an early resample to monitor this condition.	Sample Number		Client Info		VCP446139		
	Sample Date		Client Info		08 Jul 2024		
	Machine Age	hrs	Client Info		5206		
	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	nnm	ASTM D5185m	> 20	22		
WEAR	Chromium	ppm	ASTM D5185m		▲ 31		
The chromium level is abnormal. The iron level is abnormal.	Nickel	ppm	ASTM D5185m		0		
		ppm	ASTM D5185m	>10	<1		
	Titanium Silver	ppm	ASTM D5185m		<1 <1		
		ppm		. 10	4		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead Copper	ppm	ASTM D5185m ASTM D5185m		< 1 8		
	Tin	ppm	ASTM D5185m		o <1		
	Vanadium	ppm	ASTM D5185m	>10	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
<u></u>			visuai		·····		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3		
	Potassium	ppm	ASTM D5185m	>20	3		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647	>5000	13019		
	Particles >6µm		ASTM D7647	>1300	186		
	Particles >14μm		ASTM D7647	>160	15		
	Particles >21µm		ASTM D7647	>40	5		
	Particles >38μm		ASTM D7647	>10	1		
	Particles >71μm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Codium		ACTM DE10Em		0		
	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	1/	0		
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		<1		
		ppm	ASTM D5185m		0		
	Manganese Magnesium	ppm	ASTM D5185m		12		
	Calcium	ppm	ASTM D5165III		154		
	Phosphorus	ppm	ASTM D5185m		575		
	Zinc	ppm	ASTM D5185m	419	815		
	Sulfur	ppm ppm	ASTM D5185m		1528		
	Acid Number (AN)	mg KOH/g	ASTM D3103111	37 13	0.67		
	Visc @ 40°C	cSt	ASTM D0045	46	38.5		
	V130 @ 40 0	001	TOTIVI DTTJ	70	30.5		





Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 11129074

Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP446139 Received : 18 Jul 2024 : 06240240 **Tested** : 19 Jul 2024

: 20 Jul 2024 - Don Baldridge Diagnosed

ALTA EQUIPMENT CO - ORLAND PARK 5000 INDUSTRIAL HWY GARY, IN

US 46406 Contact: DAVE ENG DAVE.ENG@ALTG.COM T: (312)350-2560

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)