WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL



[646159 DIPRO]
Machine Id
CATERPILLAR 972 2686

Component Hydraulic System

VOLVO SUPER HYDRAULIC OI	L 46 ( GA	L)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. 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.	Sample Number	OOW	Client Info	LIIIIUADII	VCP452302	VCP383064	
	Sample Date		Client Info		28 Dec 2023	19 Jan 2023	
	Machine Age	hrs	Client Info		12902	10401	
	Oil Age	hrs	Client Info		4000	2000	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>20	6	2	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	1	<1	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	<1	<1	
	Lead	ppm	ASTM D5185m	>10	2	3	
	Copper	ppm	ASTM D5185m	>75	9	3	
	Tin	ppm	ASTM D5185m	>10	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION  Moderate concentration of visible dirt/debris present in the oil.	Silicon	ppm	ASTM D5185m	>20	12	14	
	Potassium	ppm	ASTM D5185m		1	0	
	Water	PP	WC Method		NEG	NEG	
	Silt	scalar	*Visual	NONE	NONE	▲ MODER	
	Debris	scalar	*Visual	NONE	▲ MODER	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	4	
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	14	<1	0	
	Barium	ppm	ASTM D5185m	0.0	0	0	
	Molybdenum	ppm	ASTM D5185m	0.0	0	0	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		6	2	
	Calcium	ppm	ASTM D5185m	49	160	144	
	Phosphorus	ppm	ASTM D5185m		542	496	
	Zinc	ppm	ASTM D5185m		790	686	
	Sulfur	ppm	ASTM D5185m	3719	1584	1882	

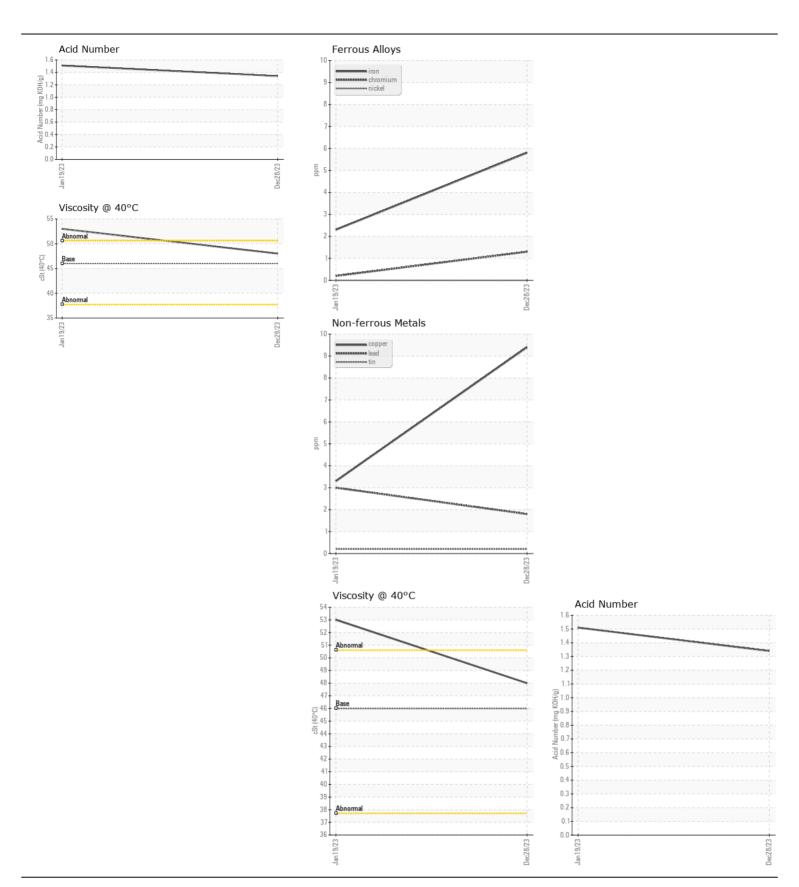
Acid Number (AN) mg KOH/g ASTM D8045

1.34

48.0

1.51

53.0







Certificate L2367

Laboratory Sample No. Lab Number

: VCP452302 : 06056604 Unique Number : 10822553 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 10 Jan 2024 Diagnosed : 11 Jan 2024 Diagnostician : Doug Bogart

56195 PONTIAC TRAIL NEW HUDSON, MI US 48165 Contact: PAUL CONZ

**ALTA EQUIPMENT COMPANY - METRO WEST** 

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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)