

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Area CHAD STEELE Machine Id 19-064S13-1 - 180

Component Hydraulic System Fluid NOT GIVEN (--- QTS)

DIAGNOSIS

Recommendation

NOTE: one of two samples received with same ID and sampling date. Insufficient sample was received to conduct or confirm all the routine laboratory tests.

Wear

{not applicable}

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

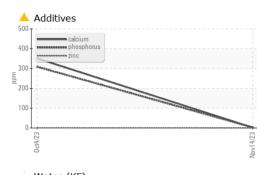
{not applicable}

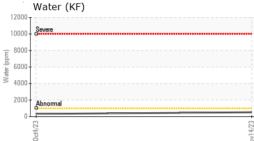
			0ct2023	Nov2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0837623	WC0837691	
Sample Date		Client Info		14 Nov 2023	04 Oct 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	
Chromium	ppm	ASTM D5185m	>10	0	<1	
Nickel	ppm	ASTM D5185m	>10	0	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	0	1	
Lead	ppm	ASTM D5185m	>10	0	0	
		ASTM D5185m	>75	11	<1	
Copper Tin	ppm	ASTM D5185m ASTM D5185m	>75 >10	<1	<1	
	ppm		>10			
Vanadium Cadmium	ppm	ASTM D5185m ASTM D5185m		0	<1 0	
	ppm			U	-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	69	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		0	2	
Calcium	ppm	ASTM D5185m		<u> </u>	351	
Phosphorus	ppm	ASTM D5185m		<u> </u>	309	
Zinc	ppm	ASTM D5185m		0	<1	
Sulfur	ppm	ASTM D5185m		1 4	843	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	3	
Sodium	ppm	ASTM D5185m		0	4	
Potassium	ppm	ASTM D5185m	>20	0	<1	
Water	%	ASTM D6304		0.051	0.032	
ppm Water	ppm	ASTM D6304	>1000	518.3	322.1	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000		3121	
Particles >6µm		ASTM D7647			468	
Particles >14µm		ASTM D7647	>160		69	
Particles >21µm		ASTM D7647			23	
		ASTM D7647 ASTM D7647	>10		3	
		ASTM D7647 ASTM D7647			3	
		A-211/11/04/	>0		1	
Particles >71µm					19/16/13	
Particles >38μm Particles >71μm Oil Cleanliness		ISO 4406 (c)	>19/17/14		19/16/13	
Particles >71µm				 current	19/16/13 history1	history2

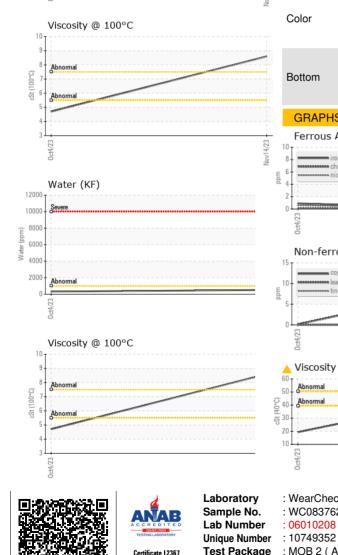
Contact/Location: PATTI CUSATIS - BASTAR



OIL ANALYSIS REPORT







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE		NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		51.7	19.3	
Visc @ 100°C	cSt	ASTM D445		8.6	4.7	
Viscosity Index (VI)	Scale	ASTM D2270		143	173	
				-		
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color				a.		no image
Bottom						no image
GRAPHS Ferrous Alloys						
Non-ferrous Metal:			Nov14/23			
0 - copper lead						
Viscosity @ 40°C			Nov14/23	Acid Number		
Abnormal Abnormal			44 Acid Number (mg KOH(g) 1 0 0 0			
0 ct4/23 + 0			Nov14/23	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		CU A Frank
: 06010208	Received Diagnose	: 16	Nov 2023 Nov 2023	3	500 WHIT	E PLAINS RI RYTOWN, N US 1059

 Certificate L2367
 Test Package
 : MOB 2 (Additional Tests: KF, KV100, VI)

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

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US 10591

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