

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Resample at the next service interval to monitor.

There is no indication of any contamination in the

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the

All component wear rates are normal.

oil is suitable for further service.

DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

CATERPILLAR 299D SKIDSTEER 040-0019 (S/N CAT0299DAFD204356) Component **Diesel Engine** Fluid

SCHAEFFER SUPREME 7000 (3 GAL)

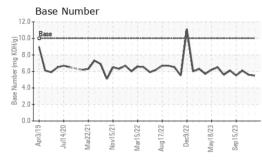


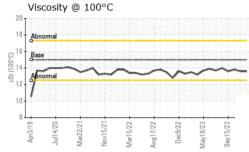


SAMPLE INFORM	IATION	method	limit/base	current	history1	history
Sample Number		Client Info		WC0868377	WC0815248	WC081523
Sample Date		Client Info		30 Nov 2023	30 Oct 2023	09 Oct 2023
Machine Age	hrs	Client Info		11025	10710	10384
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>100	1	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	0	0
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m		59	61	66
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	50	62	75	70
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	1000	32	21	17
Calcium	ppm	ASTM D5185m	1400	1591	2201	2105
Phosphorus	ppm	ASTM D5185m	985	833	1001	1001
Zinc	ppm	ASTM D5185m	1060	995	1373	1242
Sulfur	ppm	ASTM D5185m	4000	3804	5035	4882
CONTAMINANTS		method	limit/base	current	history1	history
				ounon	,	
Silicon	ppm	ASTM D5185m	>25	5	4	4
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25			
				5	4	4
Sodium	ppm	ASTM D5185m		5 <1	4 <1	4 0 2
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	5 <1 0	4 <1 <1	4 0 2
Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m method	>20 limit/base	5 <1 0 current	4 <1 <1 history1	4 0 2 history
Sodium Potassium INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base >3 >20	5 <1 0 current 0.1	4 <1 <1 history1 0.1	4 0 2 history 0.1
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>20 limit/base >3 >20	5 <1 0 current 0.1 9.8	4 <1 <1 history1 0.1 9.4	4 0 2 history 0.1 9.2 18.6
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >3 >20 >30 limit/base	5 <1 0 current 0.1 9.8 19.2	4 <1 history1 0.1 9.4 19.1	4 0 2 history: 0.1 9.2



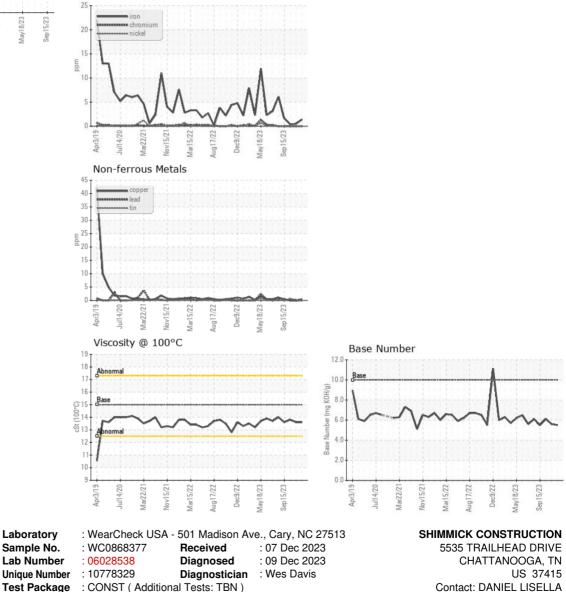
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15	13.6	13.6	13.8
СРАРИС						

Ferrous Alloys





 Certificate L2367
 Test Package
 : CONST (Additional Tests: TBN)

 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)

Т:

F:

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