

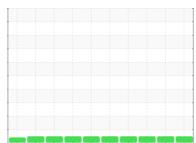
OIL ANALYSIS REPORT



OKLAHOMA/102/EG - SKID STEER 53.148L [OKLAHOMA^102^EG - SKID STEER]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)



Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

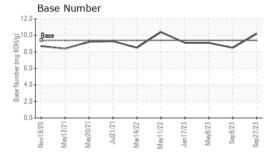
Fluid Condition

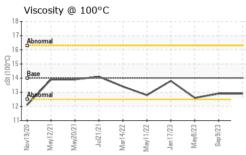
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	NOITAN	method	limit/base			history2
Sample Number		Client Info		WC0834049	WC0819944	WC0746732
Sample Date		Client Info		27 Sep 2023	09 Sep 2023	08 May 2023
Machine Age	hrs	Client Info		2992	2952	2640
Oil Age	hrs	Client Info		1011	971	971
Oil Changed	0	Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
		un akla a el	lineit/le e e e			
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	3	8	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	0
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	78	41	46
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	40	42	35
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium						
	ppm	ASTM D5185m	0	490	576	533
Calcium	ppm	ASTM D5185m ASTM D5185m	0	490		
	ppm	ASTM D5185m	0	490 1523	576 1891	533 1672
Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m	0	490 1523 734	576 1891 770	533 1672 731
	ppm	ASTM D5185m	0	490 1523	576 1891	533 1672
Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 limit/base	490 1523 734 906	576 1891 770 973	533 1672 731 908
Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	490 1523 734 906 2624	576 1891 770 973 2987	533 1672 731 908 2569
Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	490 1523 734 906 2624 current	576 1891 770 973 2987 history1	533 1672 731 908 2569 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base >25	490 1523 734 906 2624 current	576 1891 770 973 2987 history1	533 1672 731 908 2569 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	limit/base >25	490 1523 734 906 2624 current 7	576 1891 770 973 2987 history1 5	533 1672 731 908 2569 history2 4
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	490 1523 734 906 2624 current 7 2	576 1891 770 973 2987 history1 5 3	533 1672 731 908 2569 history2 4 2 <1
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844	limit/base >25 >20 limit/base >3	490 1523 734 906 2624 current 7 2 1 current	576 1891 770 973 2987 history1 5 3 1 history1 0.2	533 1672 731 908 2569 history2 4 2 <1 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base >3	490 1523 734 906 2624 current 7 2 1	576 1891 770 973 2987 history1 5 3 1	533 1672 731 908 2569 history2 4 2 <1
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >25 >20 limit/base >3 >20	490 1523 734 906 2624 current 7 2 1 current 0.1 5.2	576 1891 770 973 2987 history1 5 3 1 history1 0.2 8.0	533 1672 731 908 2569 history2 4 2 <1 history2 0.1 8.1
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7624 *ASTM D7415 method	limit/base >25 >20 limit/base >3 >20 >30 limit/base	490 1523 734 906 2624 current 7 2 1 current 0.1 5.2 21.4 current	576 1891 770 973 2987 history1 5 3 1 history1 0.2 8.0 21.9 history1	533 1672 731 908 2569 history2 4 2 <1 history2 0.1 8.1 22.3 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >25	490 1523 734 906 2624 current 7 2 1 current 0.1 5.2 21.4	576 1891 770 973 2987 history1 5 3 1 history1 0.2 8.0 21.9	533 1672 731 908 2569 history2 4 2 <1 history2 0.1 8.1 22.3



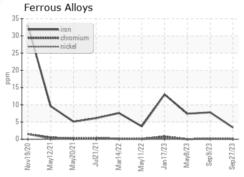
OIL ANALYSIS REPORT

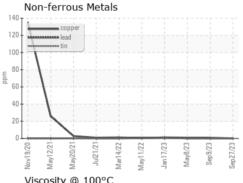


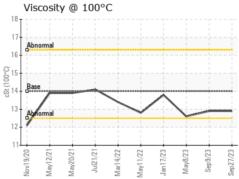


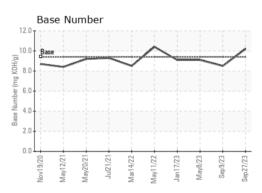
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	14	12.9	12.9	12.6













Laboratory Sample No. Lab Number

Unique Number : 10672587

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0834049 : 05966036

Received

: 02 Oct 2023 Diagnosed : 02 Oct 2023 Diagnostician : Wes Davis

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)

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