

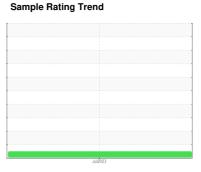
OIL ANALYSIS REPORT



LOADERSKID CATERPILLAR 232D 05-02080-005 (S/N DPR00520)

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)





Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

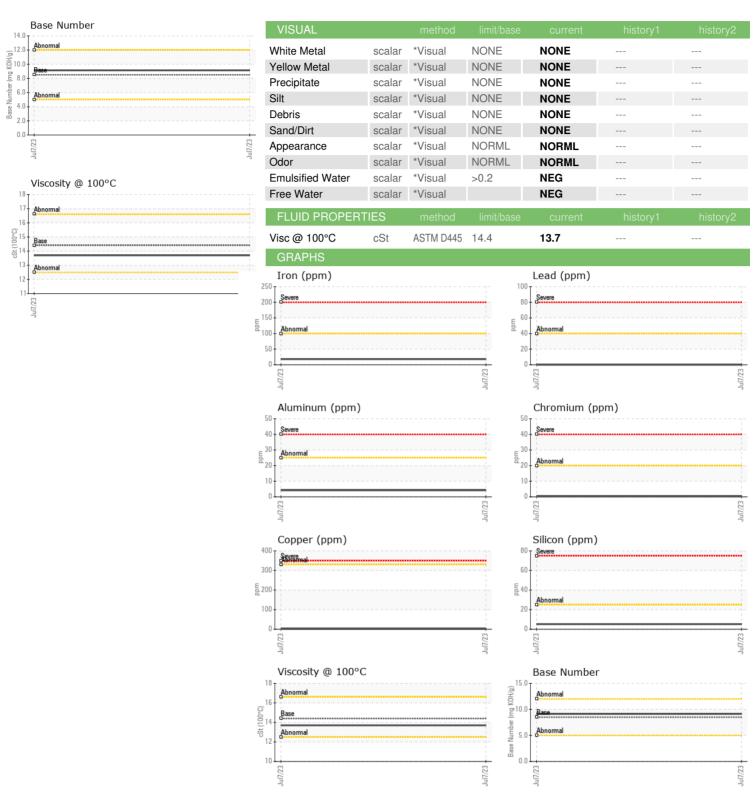
Fluid Condition

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

AL 40 (GAL)				Jul2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0661794		
Sample Date		Client Info		07 Jul 2023		
Machine Age	hrs	Client Info		2968		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	18		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	4		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	2		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m	710	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	16		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	69		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	450	987		
Calcium	ppm	ASTM D5185m	3000	1434		
Phosphorus	ppm	ASTM D5185m	1150	1206		
Zinc	ppm	ASTM D5185m	1350	1453		
Sulfur	ppm	ASTM D5185m	4250	3885		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5		
Sodium	ppm	ASTM D5185m	>216	0		
Potassium	ppm	ASTM D5185m	>20	1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	7.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.13		



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Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: 05901961 : 10563317 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0661794 Received : 18 Jul 2023 Diagnosed : 19 Jul 2023 : Wes Davis Diagnostician

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) **HAYNES MATERIALS**

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