

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

X

Machine Id CASE 250 MAGNUM JJAMG250TLRK02601 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (7 GAL)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

🛑 Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

· ·	,			Jul2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JCB005588		
Sample Date		Client Info		12 Jul 2023		
Machine Age	hrs	Client Info		1246		
Oil Age	hrs	Client Info		245		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	ම 371		
Chromium	ppm	ASTM D5185m	>20	19		
Nickel	ppm	ASTM D5185m	>4	5		
Titanium	ppm	ASTM D5185m		5		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	<u> </u>		
Lead	ppm	ASTM D5185m	>40	1		
Copper	ppm	ASTM D5185m	>330	28		
Tin	ppm	ASTM D5185m	>15	16		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	31		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	74		
Manganese	ppm	ASTM D5185m		5		
Magnesium	ppm	ASTM D5185m	450	978		
Calcium	ppm	ASTM D5185m	3000	1681		
Phosphorus	ppm	ASTM D5185m	1150	1238		
Zinc	ppm	ASTM D5185m	1350	1587		
Sulfur	ppm	ASTM D5185m	4250	4074		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	e 282		
Sodium	ppm	ASTM D5185m	>158	21		
Potassium	ppm	ASTM D5185m	>20	22		
Glycol	%	*ASTM D2982		NEG		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	13.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.6		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	30.3		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.4		



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