

OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL

WESTERN STAR NY3677

Diesel Engine Fluid DIESEL ENGINE OIL SAE 10W30 (--- LTR)

DIAGNOSIS

A Recommendation

Taking the sample cold limits the accuracy of our diagnosis. We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Advise you send the oil filter for a more detailed analysis of the wear situation that is occurring in this component.

🔺 Wear

Aluminum ppm levels are abnormal. Moderate concentration of visible metal present. Piston, ring and cylinder wear is indicated. Piston wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

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SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0805612		
Sample Date		Client Info		04 Aug 2023		
Machine Age	hrs	Client Info		483		
Dil Age	hrs	Client Info		483		
Dil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>100	123		
Chromium	ppm	ASTM D5185(m)	>20	2		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Fitanium	ppm	ASTM D5185(m)		50		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	<u> </u>		
ead	ppm	ASTM D5185(m)	>40	2		
Copper	ppm	ASTM D5185(m)	>330	108		
īn	ppm	ASTM D5185(m)	>15	43		
Intimony	ppm	ASTM D5185(m)		0		
/anadium	ppm	ASTM D5185(m)		<1		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	90		
Barium	ppm	ASTM D5185(m)	10	<1		
lolybdenum	ppm	ASTM D5185(m)	100	22		
langanese	ppm	ASTM D5185(m)		4		
/agnesium	ppm	ASTM D5185(m)	450	662		
Calcium	ppm	ASTM D5185(m)	3000	2000		
Phosphorus	ppm	ASTM D5185(m)	1150	1098		
Zinc	ppm	ASTM D5185(m)	1350	1232		
Sulfur	ppm	ASTM D5185(m)	4250	3120		
_ithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	historyd	history2
					history1	
Silicon	ppm	ASTM D5185(m)	>25	11		
Sodium	ppm	ASTM D5185(m)	00	4		
Potassium	ppm	ASTM D5185(m)	>20	28		
âlycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1		
Nitration	Abs/cm	ASTM D7624*	>20	9.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.6		
			11 11 11		Internet.	history2
FLUID DEGRADA	TION	method	limit/base	current	history1	TISTOLY2
FLUID DEGRADA	Abs/.1mm	method ASTM D7414*	>25	18.1		



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