

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 091540 Component

Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

🔺 Wear

Aluminum ppm levels are abnormal. A sharp increase in the aluminum level is noted. 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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0713521	WC0686044	
Sample Date		Client Info		07 Oct 2022	04 Apr 2022	
Machine Age	hrs	Client Info		1433	1236	
Oil Age	hrs	Client Info		433	1236	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	maa	ASTM D5185(m)	>100	32	66	
Chromium	ppm	ASTM D5185(m)	>20	2	3	
Nickel	mag	ASTM D5185(m)	>4	- <1	1	
Titanium	ppm	ASTM D5185(m)		<1	<1	
Silver	mag	ASTM D5185(m)	>3	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	<u> </u>	8	
Lead	ppm	ASTM D5185(m)	>40	0	0	
Copper	mag	ASTM D5185(m)	>330	2	4	
Tin	ppm	ASTM D5185(m)	>15	0	<1	
Antimony	mag	ASTM D5185(m)		0	<1	
Vanadium	mag	ASTM D5185(m)		0	0	
Bervllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	124	29	
Barium	mag	ASTM D5185(m)	10	0	0	
Molybdenum	mag	ASTM D5185(m)	100	15	16	
Manganese	mag	ASTM D5185(m)		<1	<1	
Magnesium	ppm	ASTM D5185(m)	450	606	466	
Calcium	ppm	ASTM D5185(m)	3000	1425	1725	
Phosphorus	mag	ASTM D5185(m)	1150	807	844	
Zinc	mag	ASTM D5185(m)	1350	842	946	
Sulfur	nom	ASTM D5185(m)	4250	2584	2570	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	19	
Sodium	ppm	ASTM D5185(m)	>158	3	3	
Potassium	ppm	ASTM D5185(m)	>20	3	4	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	7.7	3.9	
Sulfation	Abo/1mm	ASTM D7415*	>30	20.0	12.1	
	ADS/.IIIIIII	ACTIVID/415	100	20.0	16.1	
FLUID DEGRADA		method	limit/base	current	history1	historv2
FLUID DEGRADA	ADS/.111111 TION Abs/ 1mm	method ASTM D7414*	limit/base	current	history1	history2

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