

OIL ANALYSIS REPORT



Machine Id

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

DIAGNOSIS

A Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

🔺 Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

Fuel content negligible. There is an abnormal amount of solids and carbon present in the oil.

Fluid Condition

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

SAMPLE INFORM	ATION	method	iimit/base	current	nistory i	nistory2
Sample Number		Client Info		WC0904758	WC0828096	WC0799996
Sample Date		Client Info		01 Apr 2024	31 Oct 2023	11 May 2023
Machine Age	mls	Client Info		124508	0	114425
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	SEVERE
campie claide					011111	01.11.1
CONTAMINATION	۱ ا	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>100	42	51	45
Chromium	nnm	ASTM D5185m	>20	-1	1	1
Nickel	nnm	ASTM D5185m	~4	0	-1	0
Titanium	nnm	ASTM D5185m	~ 1	73	54	<1
Silver	ppm	ASTM D5185m	~3	0	0	0
Aluminum	ppm	AGTM D5105m	> 20	0 <u> </u> 01	11	16
Auminum	ppm	ACTM D5105m	>20	_ 21	2	0
Connor	ppm	ACTM DE105m	>40	1	<u>د</u>	.1
Соррег	ррпп		>330	4	<	< 1
	ppm	ASTM D5185m	>15	<1	<	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	92	51	45
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	10	7	8
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	405	432	633
Calcium	ppm	ASTM D5185m	3000	1515	1326	1203
Phosphorus	ppm	ASTM D5185m	1150	930	885	964
Zinc	ppm	ASTM D5185m	1350	1066	1033	1119
Sulfur	ppm	ASTM D5185m	4250	3900	3240	4079
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	5	5
Sodium	ppm	ASTM D5185m	>158	8	6	7
Potassium	ppm	ASTM D5185m	>20	19	13	10
Fuel	%	ASTM D3524	>5	1.2	▲ 8.3	9 .5
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	3 .7	▲ 7.1	5 .6
Nitration	Abs/cm	*ASTM D7624	>20	13.8	40.1	16.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.2	55.2	33.5
FLUID DEGRADA	TION	method	limit/base	current	historv1	historv2
	Ab	******	05	47.0	00.0	00.0
Oxidation	Abs/.1mm	ASTM D/414	>25	17.6	80.9	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.8	0.0	



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