

OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend



1013 Component Gasoline Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Machine Id

Recommendation

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

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sample Number		Client Info		WC0858198	WC0858166	WC0760026
Sample Date		Client Info		22 May 2024	07 Nov 2023	03 May 2023
Machine Age	mls	Client Info		3010	2549	38226
Oil Age	mls	Client Info		520	520	520
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	29	23	29
Chromium	ppm	ASTM D5185m	>20	2	1	2
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>40	2	3	<1
Lead	ppm	ASTM D5185m	>50	1	0	<1
Copper	ppm	ASTM D5185m	>155	<1	<1	1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	5	4	4
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	60	56	63
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	871	881	817
Calcium	ppm	ASTM D5185m	3000	1116	971	1068
Phosphorus	ppm	ASTM D5185m	1150	1018	920	953
Zinc	ppm	ASTM D5185m	1350	1136	1163	1155
Sulfur	ppm	ASTM D5185m	4250	3316	2783	2893
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	5	5
Sodium	ppm	ASTM D5185m	>158	3	3	<1
Potassium	ppm	ASTM D5185m	>20	1	0	1
Fuel	%	ASTM D3524	>4.0	0.2	▲ 5.9	▲ 7.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.4	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.7	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	21.2	19.8
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	19.5	20.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.0	7.2	6.0



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US 17870

T:

F:

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG