

OIL ANALYSIS REPORT



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

DIAGNOSIS

Machine Id 9907

A Recommendation

We advise that you check the fuel injection system. 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

Elemental level of silicon (Si) above normal. There is a moderate amount of fuel present in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORM	ATION	method	imit/base	current	nistory I	nistory2
Sample Number		Client Info		HRE0000155	WC0810317	WC0844988
Sample Date		Client Info		06 May 2024	09 Jan 2024	08 Sep 2023
Machine Age	mls	Client Info		371102	365664	360242
Oil Age	mls	Client Info		6000	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	MARGINAL	ABNORMAL
			11 11 11			
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
						inotory 2
Iron	ppm	ASTM D5185m	>100	9	3	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>40	10	0	16
Copper	ppm	ASTM D5185m	>330	2	<1	3
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	nom	ASTM D5185m	250	06	67	19
Borium	ppm	ASTM D5185m	10	90	2	2
Molybdonum	ppin	AGTM D5105m	100	66	64	Z 71
Manganasa	ppm	AGTM D5105m	100	2	0	/1
Magaacium	ppm	ASTM D5185m	450	201	225	280
Caloium	ppm	ASTM D5185m	2000	1500	1628	1721
Phoenhorue	ppm	ASTM D5185m	1150	1309	070	1024
Zino	ppin	ACTM D5105m	1250	1124	1147	10/6
Sulfur	ppm	ASTM D5185m	1350	2201	2710	2207
Guildi	ppin	AOTIVI DOTODIII	4200	5551	0710	0007
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	A 33	5	10
Sodium	ppm	ASTM D5185m	>158	5	1	4
Potassium	ppm	ASTM D5185m	>20	0	2	<1
Fuel	%	ASTM D3524	>5	<u> </u>	4 .7	5 .8
		method	limit/base	ourrent	history1	history?
		methou	IIIIIVDase	Current	History	TIIStOLY2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.5	7.2	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	19.2	21.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Δhc/1mm	*ASTM D7/1/	>25	19.0	15 5	10 /
	AUS/. IIIIIII	A01101414	220	13.0	10.0	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.4	7.9	7.1



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