

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Ic 812033

Component **Diesel Engine DIESEL ENGINE OIL SAE 15W40 (--- Shots)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

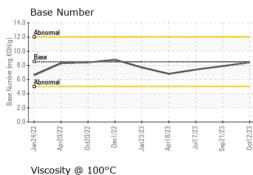
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

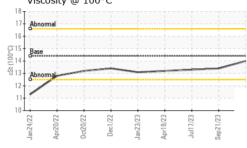
SIS REP	ORT				N	IORMAL
		Jan2022 Aş	or2022 Oct2022 Dec2022	Jan2023 Apr2023 Jul2023 Sep20	123 Oct2023	
SAMPLE INFOR	RMATIO	N method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093408	GFL0093403	GFL0080392
Sample Date		Client Info		12 Oct 2023	21 Sep 2023	17 Jul 2023
Machine Age	hrs	Client Info		4808	4521	4039
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	0	7	13
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	6
Lead	ppm	ASTM D5185m	>40	- <1	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m	210	<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	pp		1	-	-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	0	<1	0
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	61	61	63
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	1062	1041	1036
Calcium	ppm	ASTM D5185m	3000	1119	1196	1163
Phosphorus	ppm	ASTM D5185m	1150	1186	1084	1065
Zinc	ppm	ASTM D5185m	1350	1471	1372	1374
Sulfur	ppm	ASTM D5185m	4250	3668	3905	3630
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	4
Sodium	ppm	ASTM D5185m	>158	0	3	<1
Potassium	ppm	ASTM D5185m	>20	1	3	<1
INERA-RED		method	limit/hase	ourropt	history1	history2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.3	7.4	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	19.8	20.3
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	15.2	15.8
Base Number (BN)	ma KOH/a	ASTM D2896	8.5	8.4	7.9	7.4



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	14.0	13.4	13.3
GRAPHS						

