

Machine Id 10541 Component Diesel Engine DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

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

WEAR

All component wear rates are normal.

CONTAMINATION

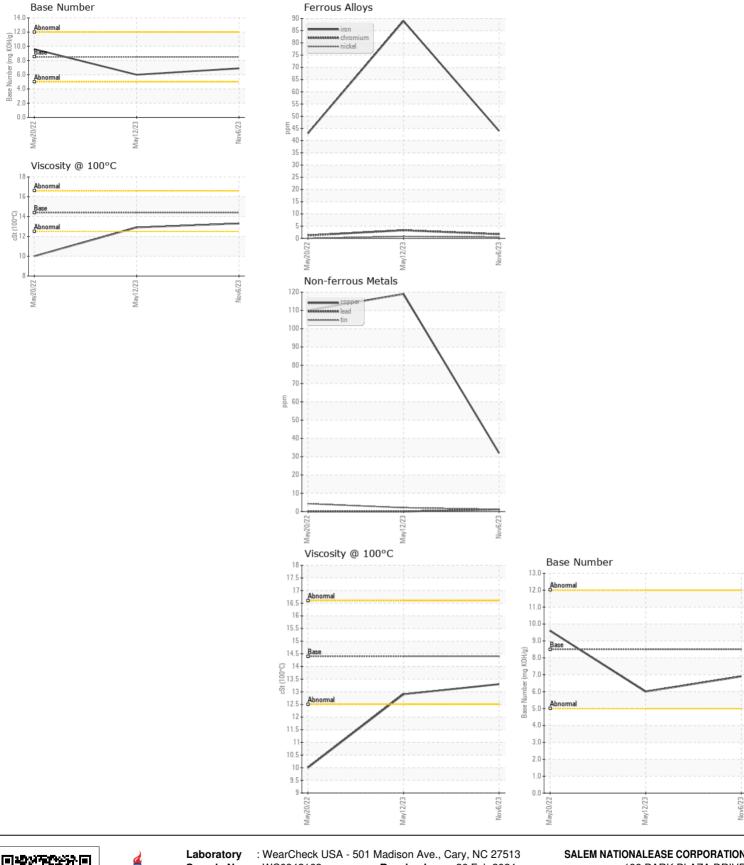
FLUID CONDITION

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

The BN result indicates that there is suitable alkalinity remaining in the

oil. The condition of the oil is suitable for further service.

Te	est	UOM	Method	Limit/Abn	Current	History1	History2
Sa	ample Number		Client Info		WC0842162	WC0742429	WC0645424
S	ample Date		Client Info		06 Nov 2023	12 May 2023	20 May 2022
M	achine Age	mls	Client Info		109433	69411	18972
0	il Age	mls	Client Info		0	0	0
Fi	lter Age	mls	Client Info		0	0	0
0	il Changed		Client Info		Changed	Changed	Changed
Fi	lter Changed		Client Info		Changed	Changed	Changed
S	ample Status				NORMAL	NORMAL	ATTENTION
							40
	on	ppm	ASTM D5185m	>100	44	89	43
-	hromium	ppm	ASTM D5185m	>20	2	3	1
	ickel	ppm	ASTM D5185m	>4	<1	<1	0
	tanium	ppm	ASTM D5185m	0	<1	0	<1
-	ilver	ppm	ASTM D5185m	>3	<1	0	1
	luminum	ppm	ASTM D5185m	>20	14	32	
	ead	ppm	ASTM D5185m	>40	1	0	0
Ti	opper	ppm	ASTM D5185m	>330	32	119 2	4
		ppm	ASTM D5185m	>15	1	0	0
	anadium /hite Metal	ppm	ASTM D5185m *Visual	NONE	-	NONE	NONE
	ellow Metal	scalar		NONE	NONE NONE	NONE	NONE
		scalar	*Visual	NONE	NONE	NONE	NONE
Si	ilicon	ppm	ASTM D5185m	>25	7	7	6
P	otassium	ppm	ASTM D5185m	>20	37	85	42
F	uel		WC Method	>5	<1.0	<1.0	0.2
W	/ater		WC Method	>0.2	NEG	NEG	NEG
G	lycol		WC Method		NEG	NEG	NEG
S	oot %	%	*ASTM D7844	>3	0.9	1	0.4
N	itration	Abs/cm	*ASTM D7624	>20	10.8	12.3	8.8
S	ulfation	Abs/.1mm	*ASTM D7415	>30	22.7	25.3	24.4
Si	ilt	scalar	*Visual	NONE	NONE	NONE	NONE
D	ebris	scalar	*Visual	NONE	NONE	NONE	NONE
S	and/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
A	ppearance	scalar	*Visual	NORML	NORML	NORML	NORML
0	dor	scalar	*Visual	NORML	NORML	NORML	NORML
Er	mulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
 C.	o diu m		ASTM D5185m	. 150	0	0	0
-	odium	ppm		>158	2 7	3	2
	oron	ppm	ASTM D5185m			2	62
	arium olybdenum	ppm	ASTM D5185m	10	0	0 65	3 44
	anganese	ppm	ASTM D5185m ASTM D5185m	100	67 1	2	2
	agnesium	ppm ppm	ASTM D5185m	450	1020	959	469
	alcium		ASTM D5185m	3000	1158	1281	1679
	hosphorus	ppm ppm	ASTM D5185m	1150	1073	993	737
	inc		ASTM D5185m	1350	1334	1230	930
	ulfur	ppm ppm	ASTM D5185m	4250	2462	2118	2158
	xidation	Abs/.1mm	*ASTM D310311	>25	2402	23.8	22.6
	ase Number (BN)	mg KOH/g	ASTM D2896	8.5	6.9	6.0	9.6
	isc @ 100°C	cSt	ASTM D2000	14.4	13.3	12.9	10.0
v		501		1-1.7		12.0	- 10.0



SALEM NATIONALEASE CORPORATION Sample No. : WC0842162 Received 198 PARK PLAZA DRIVE : 26 Feb 2024 Lab Number : 06099684 : 27 Feb 2024 WINSTON SALEM, NC Tested Unique Number : 10897914 : 27 Feb 2024 - Wes Davis US 27105 Diagnosed Test Package : FLEET **Contact: Audrey Hopkins** Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Audrey.Hopkins@salemcorp.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)767-9642 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x:

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