

Limit/Abn Current

Toet

Mathad

History

History?

Machine Id **21609** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

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.

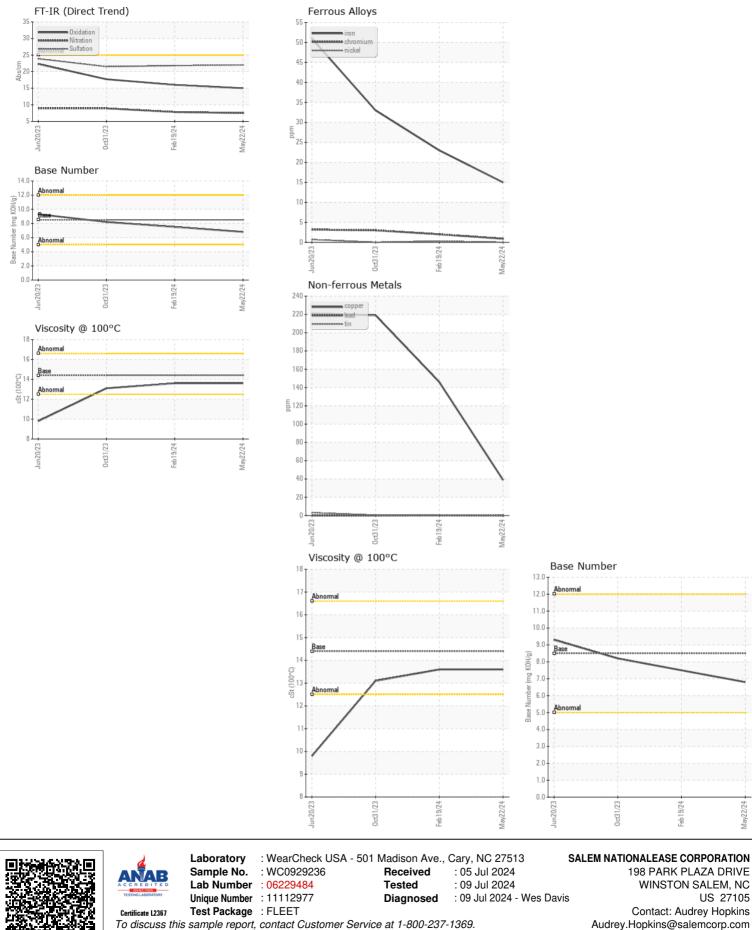
CONTAMINATION

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.

Т	est	UOM	Method	Limit/Abn	Current	History1	History2
S	ample Number		Client Info		WC0929236	WC0842028	WC0842121
S	ample Date		Client Info		22 May 2024	19 Feb 2024	31 Oct 2023
N	lachine Age	mls	Client Info		84798	66682	47505
С)il Age	mls	Client Info		0	0	0
F	ilter Age	mls	Client Info		0	0	0
С	il Changed		Client Info		Changed	Changed	Changed
F	ilter Changed		Client Info		Changed	Changed	Changed
S	ample Status				NORMAL	NORMAL	NORMAL
	on	ppm	ASTM D5185m	>100	15	23	33
	hromium	ppm	ASTM D5185m	>20	<1	2	3
	lickel	ppm	ASTM D5185m	>4	0	<1	0
	ïtanium	ppm	ASTM D5185m		0	<1	0
-	ilver	ppm	ASTM D5185m	>3	<1	<1	0
	luminum	ppm	ASTM D5185m	>20	8	19	45
	ead	ppm	ASTM D5185m	>40	0	<1	0
	opper	ppm	ASTM D5185m	>330	39	146	219
	ïn 	ppm	ASTM D5185m	>15	0	<1	<1
	anadium	ppm	ASTM D5185m		0	<1	0
	Vhite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Y	ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
S	ilicon	ppm	ASTM D5185m	>25	5	7	7
-	otassium	ppm	ASTM D5185m	>20	14	37	106
	uel	ppin	WC Method	>5	<1.0	<1.0	<1.0
	Vater			>0.2	NEG	NEG	NEG
	ilycol		WC Method	20.L	NEG	NEG	NEG
	oot %	%	*ASTM D7844	>3	0.6	0.7	0.9
	litration	Abs/cm	*ASTM D7624	>20	7.5	7.8	8.9
	ulfation	Abs/.1mm	*ASTM D7415	>30	22.0	21.8	21.5
	ilt	scalar	*Visual	NONE	NONE	NONE	NONE
D	ebris	scalar	*Visual	NONE	NONE	NONE	NONE
s	and/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
А	ppearance	scalar	*Visual	NORML	NORML	NORML	NORML
С)dor	scalar	*Visual	NORML	NORML	NORML	NORML
Е	mulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	odium	ppm	ASTM D5185m	>158	2	2	2
B	oron	ppm	ASTM D5185m	250	238	183	4
	arium	ppm	ASTM D5185m	10	0	<1	0
	lolybdenum	ppm	ASTM D5185m	100	84	78	59
	langanese	ppm	ASTM D5185m		<1	<1	<1
	lagnesium	ppm	ASTM D5185m	450	440	638	910
	alcium	ppm	ASTM D5185m	3000	1419	1279	1179
	hosphorus	ppm	ASTM D5185m	1150	1012	1027	872
	inc	ppm	ASTM D5185m	1350	1265	1223	1123
	Sulfur	ppm	ASTM D5185m	4250	3329	2891	2635
	Dxidation	Abs/.1mm	*ASTM D7414	>25	15.0	16.0	17.7
	ase Number (BN)	mg KOH/g	ASTM D2896	8.5	6.8	7.5	8.2
V	′isc @ 100°C	cSt	ASTM D445	14.4	13.6	13.6	13.1

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.



To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Audrey Hopkins - SALWIN Page 2 of 2

T: (336)767-9642

F: x: