

Limit/Abn Current

History1

History2

Test

UOM

Method

Machine Id **32713** Component **Diesel Engine** Fluid **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

Metal levels are typical for a new component breaking in.

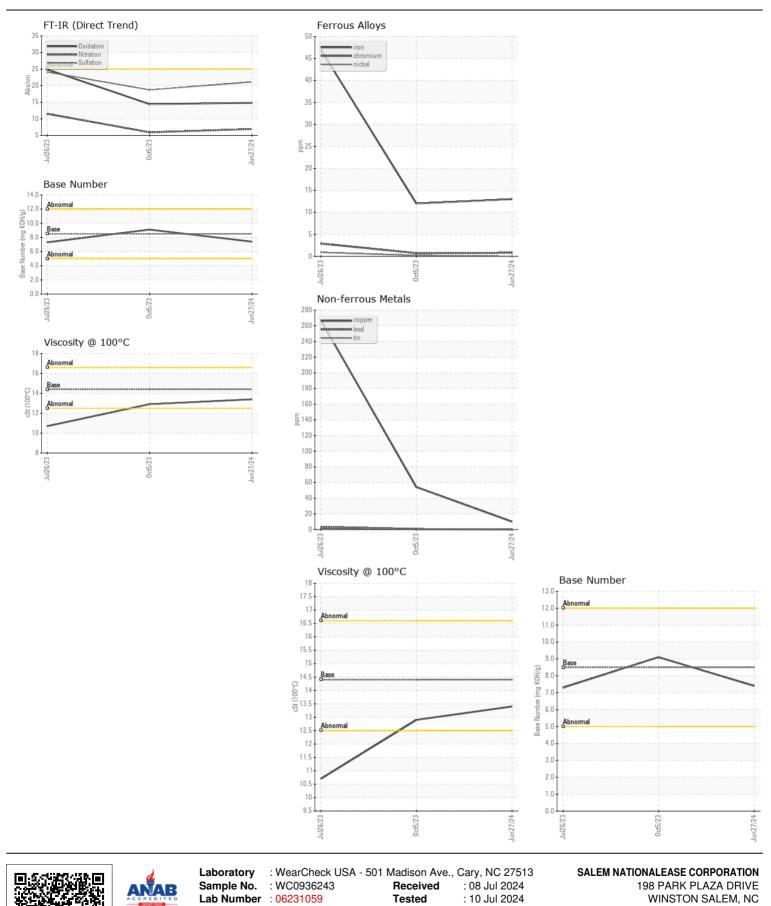
CONTAMINATION

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.

re	St	UOIVI	Wethod	Limit/Add	Current	HIStory I	HIStory2
Sa	mple Number		Client Info		WC0936243	WC0787681	WC0787600
Sa	mple Date		Client Info		27 Jun 2024	05 Oct 2023	26 Jul 2023
Ma	achine Age	mls	Client Info		55081	20185	18964
Oil	Age	mls	Client Info		25000	0	0
Filt	ter Age	mls	Client Info		25000	0	0
	Changed		Client Info		Changed	N/A	Changed
Filt	ter Changed		Client Info		Changed	N/A	Changed
	mple Status				NORMAL	NORMAL	NORMAL
Iro	n	ppm	ASTM D5185m	>100	13	12	47
Ch	iromium	ppm	ASTM D5185m	>20	<1	<1	3
Nic	ckel	ppm	ASTM D5185m	>4	0	<1	<1
Tit	anium	ppm	ASTM D5185m		<1	<1	<1
Sil	ver	ppm	ASTM D5185m	>3	0	0	<1
Alu	uminum	ppm	ASTM D5185m	>20	8	8	47
Le	ad	ppm	ASTM D5185m	>40	0	<1	2
Co	pper	ppm	ASTM D5185m	>330	10	54	267
Tir		ppm	ASTM D5185m	>15	0	1	4
Va	nadium	ppm	ASTM D5185m		0	<1	<1
W	nite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Ye	llow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Sil	icon	ppm	ASTM D5185m	>25	4	3	6
Po	tassium	ppm	ASTM D5185m	>20	16	20	113
Fu	el		WC Method	>5	<1.0	<1.0	0.3
Wa	ater		WC Method	>0.2	NEG	NEG	NEG
Gl	ycol		WC Method		NEG	NEG	NEG
So	ot %	%	*ASTM D7844	>3	0.4	0.2	0.8
Nit	ration	Abs/cm	*ASTM D7624	>20	6.9	5.9	11.5
Su	lfation	Abs/.1mm	*ASTM D7415	>30	21.1	18.7	24.1
Sil	t	scalar	*Visual	NONE	NONE	NONE	NONE
De	bris	scalar	*Visual	NONE	NONE	NONE	NONE
Sa	nd/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Ap	pearance	scalar	*Visual	NORML	NORML	NORML	NORML
Oc	lor	scalar	*Visual	NORML	NORML	NORML	NORML
Em	ulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
<u></u>				150	0	0	0
	dium	ppm	ASTM D5185m	>158 250	2 285	2 57	6 27
	ron	ppm	ASTM D5185m		200		0
	rium	ppm	ASTM D5185m	10	•	12	Ū
	olybdenum	ppm	ASTM D5185m	100	85	60 <1	37 4
	anganese	ppm	ASTM D5185m	450	<1 479	853	
	agnesium	ppm	ASTM D5185m	450	478		474
		ppm	ASTM D5185m	3000	1588	1163	1703
	osphorus	ppm	ASTM D5185m	1150	1097	980	688
Zir	-	ppm	ASTM D5185m	1350	1337	1184	867
	lfur	ppm	ASTM D5185m	4250	3889	3077	2126
-	idation	Abs/.1mm	*ASTM D7414	>25	14.8	14.4	24.9
	se Number (BN)	mg KOH/g	ASTM D2896	8.5	7.4	9.1	7.3
VIS	sc @ 100°C	cSt	ASTM D445	14.4	13.4	12.9	10.7

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.



Diagnosed Unique Number : 11114552 : 10 Jul 2024 - Wes Davis 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)

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

US 27105

F: x: