

Machine Id **DFA28076** 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

All component wear rates are normal.

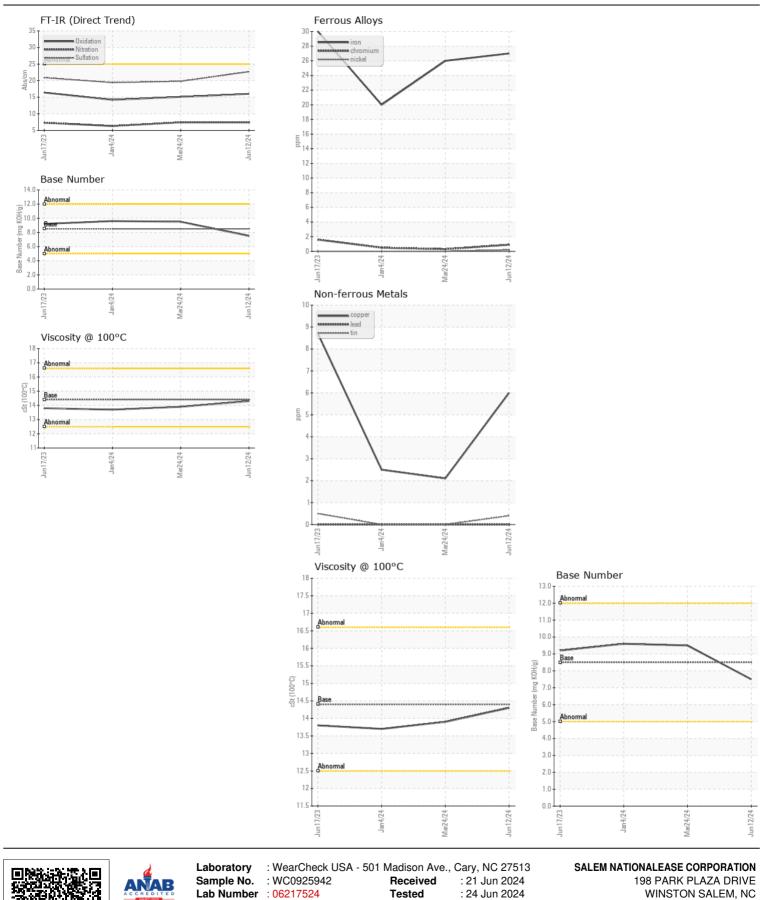
CONTAMINATION

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.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0925942	WC0925929	WC0879647
	Sample Date		Client Info		12 Jun 2024	24 Mar 2024	04 Jan 2024
	Machine Age	mls	Client Info		292075	276520	261533
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
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	Iron	ppm	ASTM D5185m	>100	27	26	20
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	18	13	14
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	6	2	2
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	0'''					_	0
	Silicon	ppm	ASTM D5185m	>25	5	3	3
	Potassium	ppm	ASTM D5185m	>20	32	25	30
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5 7.4	0.4	0.3
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	22.7	19.8	19.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
		scalar	*Visual	NORML	NORML	NORML	NORML
	Appearance Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
-		Scalai	visuai	>0.2		NLG	NLG
	Sodium	ppm	ASTM D5185m	>158	2	<1	<1
	Boron	ppm	ASTM D5185m	250	242	0	0
	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	84	63	60
	Manganese	ppm	ASTM D5185m		1	0	0
	Magnesium	ppm	ASTM D5185m	450	528	1096	1003
	Calcium	ppm	ASTM D5185m	3000	1386	1217	1089
	Phosphorus	ppm	ASTM D5185m	1150	1131	1115	1055
	Zinc	ppm	ASTM D5185m	1350	1358	1342	1251
	Sulfur	ppm	ASTM D5185m	4250	3902	3981	3637
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	15.1	14.2
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.5	9.5	9.6
	Visc @ 100°C	cSt	ASTM D445	14.4	14.3	13.9	13.7

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.



Lab Number : 06217524 Tested : 24 Jun 2024 Diagnosed Unique Number : 11090388 : 24 Jun 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

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