

Limit/Abn Current

Toet

Mathad

History

History?

#### Machine Id **9739** 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.

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	Sample Number		Client Info		WC0875914	WC0875735	WC0875814
	Sample Date		Client Info		03 Jun 2024	13 Feb 2024	14 Nov 2023
	Machine Age	mls	Client Info		77437	50599	0
	Oil Age	mls	Client Info		20000	0	0
	Filter Age	mls	Client Info		20000	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
	Iron	ppm	ASTM D5185m	>100	23	20	59
	Chromium	ppm	ASTM D5185m	>20	2	2	6
	Nickel	ppm	ASTM D5185m	>4	0	<1	1
	Titanium	ppm	ASTM D5185m		4	0	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	12	29	141
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	40	224	151
	Tin	ppm	ASTM D5185m	>15	0	1	4
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon	ppm	ASTM D5185m	>25	5	4	9
	Potassium	ppm	ASTM D5185m	>20	24	62	343
	Fuel		WC Method	>5	<1.0	<1.0	0.2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	7.5	8.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	22.3	23.3
	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
	Codium			. 150	0	0	0
	Sodium	ppm	ASTM D5185m	>158	3 100	2	9
	Boron	ррп		200	129	237	29
	Danum	ppm	ACTM DE105m	100	0	70	0
	Manganaga	ppm	ASTM DE105m	100	4	13	30 E
	Manganese	ррп	ACTM DE105m	450	1	100	C 401
	Magnesium	ppm	ASTM D5185m	450	1550	400	481
	Decemberus	ppm	ACTM DE10Em	1150	1550	12/1	715
	Zine	ppm		1050	914	1005	/15
		ppm	ACTM DE105	1350	1143	1085	ö14
	Sullur	ppm	ASTM D5185M	4250	2963	2423	1919
	Data Number (DN)	ADS/.IMM	ASTM D0000	>20	17.4	17.5	23.3
	Base Number (BN)	ing KOH/g	ASTM D2896	8.5	6.0	6.5	8.3
	visc@100°C	COL	ASTIVI D445	14.4	13.5	12.ŏ	9.0

#### 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 : 11083996 : 18 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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