

Machine Id 8147 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 10W30 (--- 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

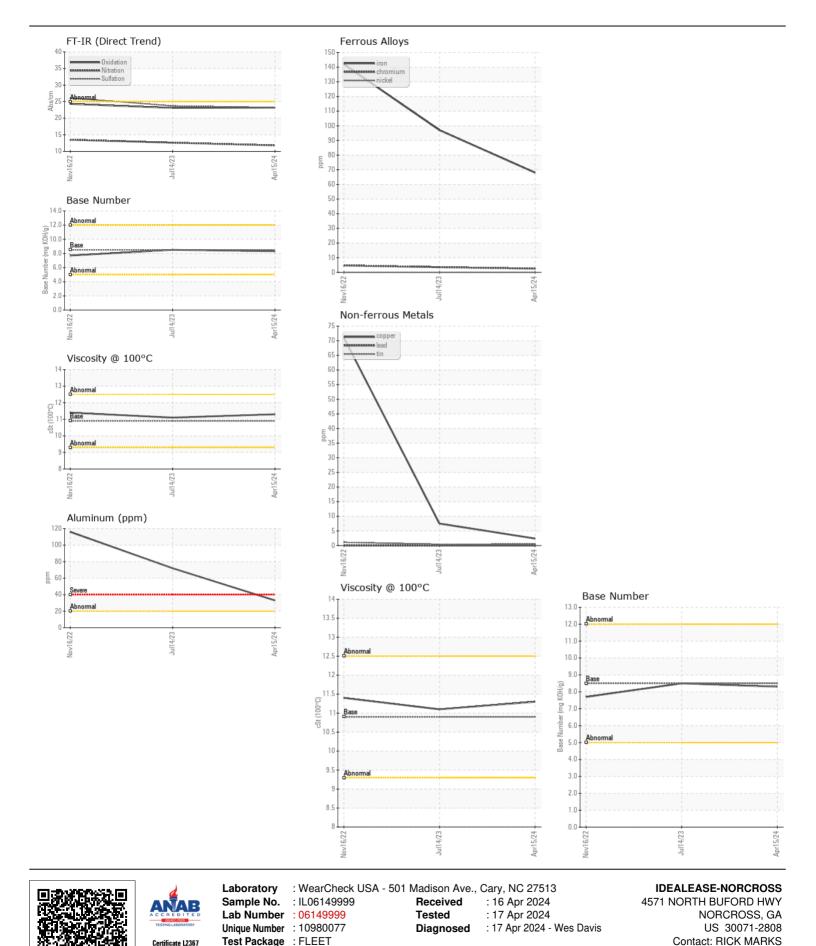
FLUID CONDITION

Elevated aluminum (Al) 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.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		IL06149999	IL05958365	IL05696744
	Sample Date		Client Info		15 Apr 2024	14 Jul 2023	16 Nov 2022
	Machine Age	mls	Client Info		0	0	0
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	ABNORMAL
	Iron	ppm	ASTM D5185m	>100	68	97	<u> </u>
	Chromium	ppm	ASTM D5185m	>20	2	4	5
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	33	72	116
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	2	8	71
	Tin	ppm	ASTM D5185m	>15	<1	<1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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	Silicon	ppm	ASTM D5185m	>25	9	11	▲ 27
	Potassium	ppm	ASTM D5185m	>20	62	156	378
	Fuel		WC Method	>5	<1.0	<1.0	1.8
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.9	1.2	1
	Nitration	Abs/cm	*ASTM D7624	>20	11.8	12.6	13.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	23.7	26.1
	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
	Sodium	ppm	ASTM D5185m		4	6	6
	Boron	ppm	ASTM D5185m	250	26	22	27
	Barium	ppm	ASTM D5185m	10	0	0	4
	Molybdenum	ppm	ASTM D5185m	100	45	43	49
	Manganese	ppm	ASTM D5185m		1	1	5
	Magnesium	ppm	ASTM D5185m	450	555	515	725
	Calcium	ppm	ASTM D5185m	3000	1778	1599	1280
	Phosphorus	ppm	ASTM D5185m	1150	830	694	685
	Zinc	ppm	ASTM D5185m	1350	1011	903	795
	Sulfur	ppm	ASTM D5185m	4250	2846	2684	2384
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.2	23.1	24.3
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.3	8.5	7.7
	Visc @ 100°C	cSt	ASTM D445	10.9	11.3	11.1	11.4



Certificate L2367 **Test Package** : FLEET 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) F: (770)300-0614

Contact/Location: RICK MARKS - IDENORGA Page 2 of 2

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