

Machine Id 6925927 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.

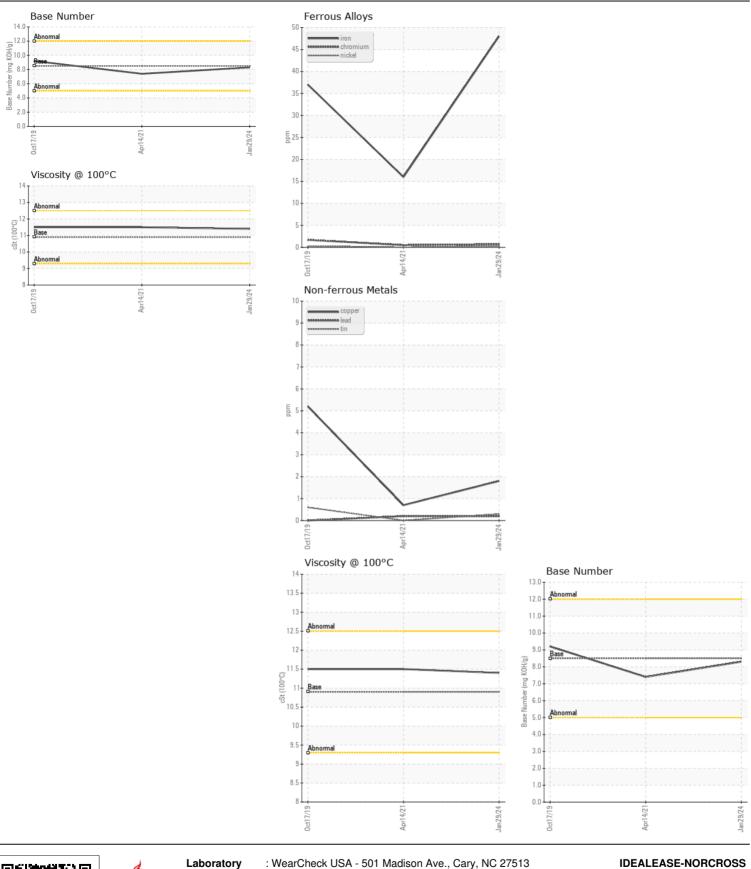
CONTAMINATION

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		IL06073771	IL05230818	IL04830372
	Sample Date		Client Info		29 Jan 2024	14 Apr 2021	17 Oct 2019
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	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	48	16	37
	Chromium	ppm	ASTM D5185m	>20	<1	<1	2
	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	9	8	<u> </u>
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m	>330	2	<1	5
	Tin	ppm	ASTM D5185m	>15	<1	0	<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	5	10
	Potassium	ppm	ASTM D5185m	>20	16	10	▲ 97
	Fuel		WC Method	>5	<1.0	1.3	1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	a (WC Method	0	NEG	NEG	0.0
	Soot %	%	*ASTM D7844	>3	0.9	0.5	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	12.2	10.8	9.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	24.3	21.8
	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		0	3	4
	Boron	ppm	ASTM D5185m	250	25	44	28
	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	46	8	41
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m	450	498	656	514
	Calcium	ppm	ASTM D5185m	3000	1662	1242	1656
	Phosphorus	ppm	ASTM D5185m	1150	705	709	690
	Zinc	ppm	ASTM D5185m	1350	919	720	915
	Sulfur	ppm	ASTM D5185m	4250	2611	2196	2156
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.5	18.8	19.9
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.3	7.4	9.2
	Visc @ 100°C	cSt	ASTM D445	10.9	11.4	11.5	11.5
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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.



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024 Diagnosed : 31 Jan 2024 Diagnostician : Wes Davis

IDEALEASE-NORCROSS 4571 NORTH BUFORD HWY NORCROSS, GA US 30071-2808 Contact: RICK MARKS

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

: IL06073771

: 06073771

* - 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)

T: F: (770)300-0614

Certificate L2367

Sample No.

Lab Number

Unique Number : 10855862

Contact/Location: RICK MARKS - IDENORGA