

Machine Id 8116 Component Diesel Engine Filuid DIESEL ENGINE OIL SAE 10W30 (--- GAL) RECOMMENDATION

No corrective action is recommended at this time. Resample at the	
next service interval to monitor.	

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

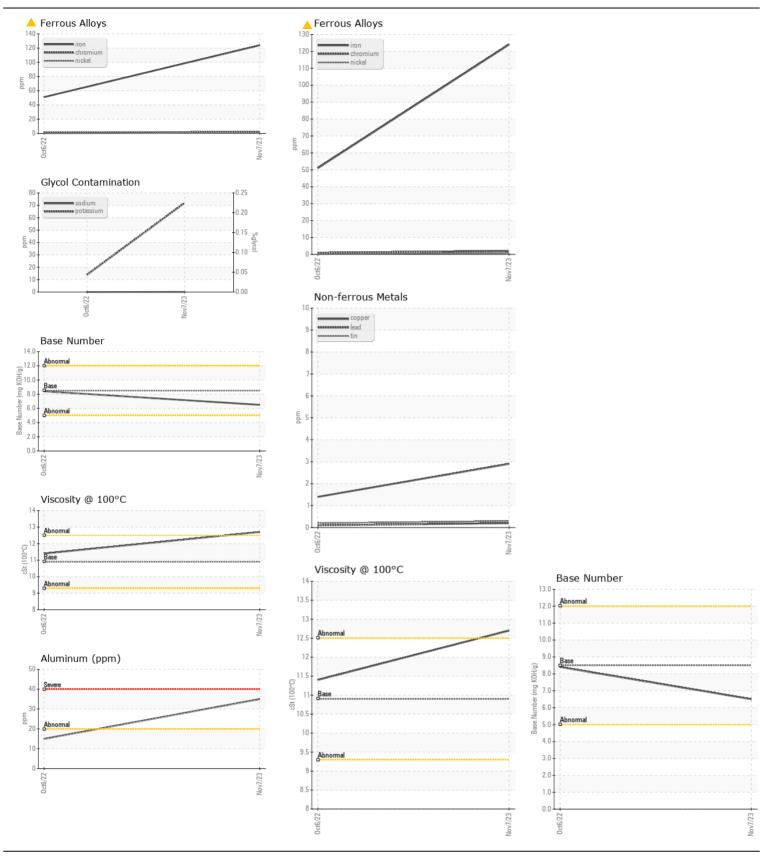
CONTAMINATION

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. No other contaminants were detected in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL06073719	IL05683443	
Sample Date		Client Info		07 Nov 2023	06 Oct 2022	
Machine Age	mls	Client Info		0	0	
Oil Age	mls	Client Info		0	0	
Filter Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Filter Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>100	124	51	
Chromium	ppm	ASTM D5185m	>20	2	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>20	35	15	
Lead	ppm	ASTM D5185m	>40	<1	<1	
Copper	ppm	ASTM D5185m	>330	3	1	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>25	11	8	
Potassium	ppm	ASTM D5185m	>20	72	14	
Fuel		WC Method	>5	<1.0	0.8	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	*ASTM D7844	>3	1.3	0.8	
Nitration	Abs/cm	*ASTM D7624	>20	16.9	14.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.7	25.8	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185m		<1	0	
Boron	ppm	ASTM D5185m		38	29	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	75	62	
Manganese	ppm	ASTM D5185m		1	<1	
Magnesium	ppm	ASTM D5185m	450	470	495	
Calcium	ppm	ASTM D5185m	3000	1809	1726	
Phosphorus	ppm	ASTM D5185m	1150	771	765	
Zinc	ppm	ASTM D5185m	1350	1090	954	
Sulfur	ppm	ASTM D5185m	4250	2544	2682	
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.2	26.8	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.5	8.4	
Visc @ 100°C	cSt	ASTM D445	10.9	12.7	11.4	

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



IDEALEASE-NORCROSS Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Recieved : 30 Jan 2024 4571 NORTH BUFORD HWY : IL06073719 NORCROSS, GA Lab Number :06073719 Diagnosed : 31 Jan 2024 : 10850396 Diagnostician : Don Baldridge Unique Number US 30071-2808 Test Package : FLEET Contact: RICK MARKS Certificate L2367 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)

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