

Machine Id **142219** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 40 (--- QTS)**

RECOMMENDATION

No corrective action is recommended at this time. 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.

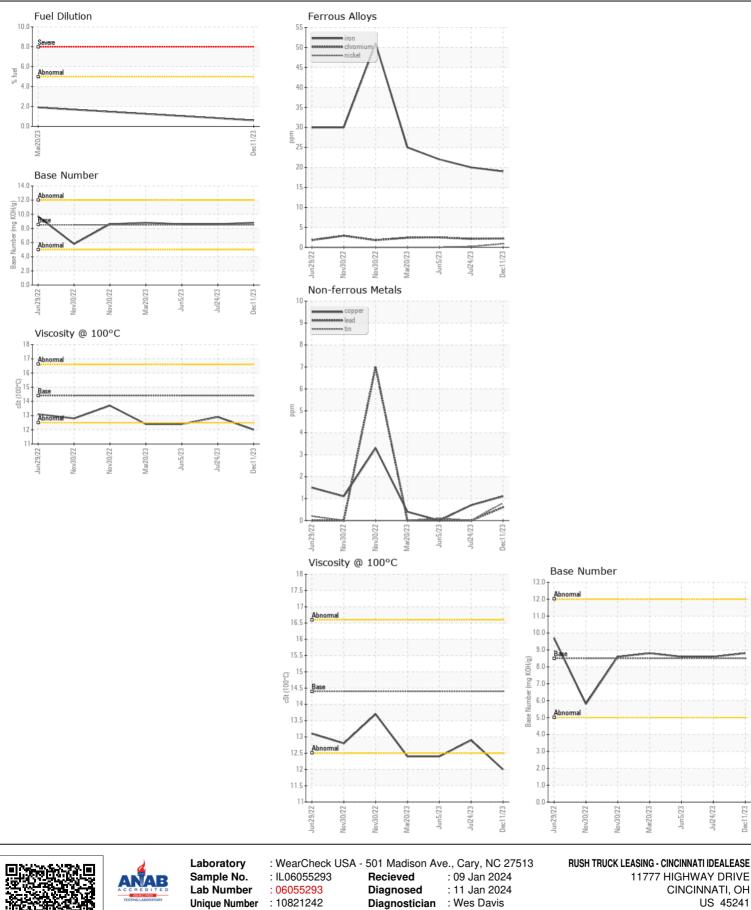
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CON		

Fuel content negligible. 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.

LUID CONDITION			
	_	CON	

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		IL06055293	IL05917269	IL05877822
Sample Date		Client Info		11 Dec 2023	24 Jul 2023	05 Jun 2023
Machine Age	hrs	Client Info		4389	148659	3281
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	NORMAL
Iron	ppm	ASTM D5185m	>100	19	20	22
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	10	10	18
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	1	<1	0
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
0'''			05			4
Silicon	ppm	ASTM D5185m	>25	5	3	4
Potassium	ppm	ASTM D5185m	>20	11	17	21
Fuel	%	ASTM D3524	>5	0.6	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	0/	WC Method	0	NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.6	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.4	20.7
Silt	scalar	*Visual	NONE NONE	NONE	NONE	NONE
Debris	scalar scalar	*Visual *Visual		NONE NONE	NONE	NONE
Sand/Dirt			NONE	NORML	NONE	
Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual *Visual	>0.2	NEG	NEG	NEG
	scalar	visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>216	0	0	<1
Boron	ppm	ASTM D5185m	250	4	<1	7
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	60	61	55
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	918	891	874
Calcium	ppm	ASTM D5185m	3000	1082	1145	1123
Phosphorus	ppm	ASTM D5185m	1150	892	1004	936
Zinc	ppm	ASTM D5185m	1350	1184	1197	1146
Sulfur	ppm	ASTM D5185m	4250	3467	3102	3276
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	15.8	17.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8	8.6	8.6
Visc @ 100°C	cSt	ASTM D445	14.4	12.0	12.9	12.4
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 Certificate 12367
 Test Package
 : FLEET (Additional Tests: FuelDilution, PercentFuel)

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - 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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