

OIL ANALYSIS REPORT

Area [69431] NO UNIT WC0948241

Diesel Engine Fluid DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 10W30. Please confirm. Please specify the component make and model with your next sample.

📥 Wear

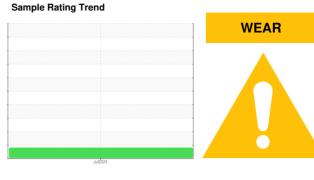
Nickel ppm levels are abnormal. Exhaust valve wear is indicated.

Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0948241		
Sample Date		Client Info		02 Jul 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	56		
Chromium	ppm	ASTM D5185(m)	>20	1		
Nickel	ppm	ASTM D5185(m)	>4	<u> </u>		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	9		
Lead	ppm	ASTM D5185(m)	>40	2		
Copper	ppm	ASTM D5185(m)	>330	21		
Tin	ppm	ASTM D5185(m)	>15	2		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<1		
Barium	ppm	ASTM D5185(m)	10	<1		
Molybdenum	ppm	ASTM D5185(m)	100	62		
Manganese	ppm	ASTM D5185(m)		1		
Magnesium	ppm	ASTM D5185(m)	450	991		
Calcium	ppm	ASTM D5185(m)	3000	1134		
Phosphorus	ppm	ASTM D5185(m)	1150	926		
Zinc	ppm	ASTM D5185(m)	1350	1223		
Sulfur	ppm	ASTM D5185(m)	4250	2200		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	10		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	5		
Fuel	%	ASTM D7593*	>5	0.0		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.9		
Soot % Nitration	% Abs/cm	ASTM D7844* ASTM D7624*		0.9 12.5		



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nickel	Oxidation VISUAL	Abs/.1mm	ASTM D7414*	>25	21.0		
	VISTIAL			11. 11.0		1.1.1. A.	1.1.1
			method	limit/base	current	history1	history
	White Metal	scalar	Visual*	NONE	VLITE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Precipitate	scalar	Visual*	NONE	NONE		
Jul2/24	52 Silt	scalar	Visual*	NONE	NONE		
- -	Deblis	scalar	Visual*	NONE	NONE		
Glycol Contamination	Sand/Dirt	scalar	Visual*	NONE	NONE		
	1 ^{0.25} Appearance	scalar	Visual*	NORML	NORML		
potassium	0.20 Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
		scalar	Visual*		NEG		
	FLUID PROPE	RTIES	method	limit/base	current	history1	history
	Visc @ 40°C	cSt	ASTM D7279(m)	73	74.4		
Jul2/24 +	Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.1		
Slut	Viscosity Index (V	(I) Scale	ASTM D2270*	138	139		
Fuel Dilution	GRAPHS						
Fuel Dilution	Iron (ppm)				Lead (ppm)		
Severe	300			10	Severe		
	200 - Severe	••••••		Ed 5			
Abnormal	100 - Abnormal			ā 5	0 Abnormal		
	0				0		
	Jul2/24			Jul2/24	Jul2/24		
				٦٢	٦٢		
Jul2/24	Aluminum (ppm	ו)		6	Chromium (p	pm)	
	Smore				Saura		
FT-IR (Direct Trend)	40 - Severe			4 80			
Oxidation	20 - Abnormal			2	0 - Abnormal		
AND	0						
Abnormal	Jul2/24			Jul2/24	Jul2/24		
				7			
	Copper (ppm)				Silicon (ppm)		
	400 Severe 300				0		
24 +				톱 4	0		
Jul2/24	₩200 ₩ 100			2	Automa		
	0			4	0		
/iscosity @ 40°C	Jul2/24			Jul2/24	Jul2/24		
Abnormal		1ºC		-			
	Viscosity @ 100	C.		6.	Soot %		
	abnormal Base						
Base	Co ¹² Base Abnormal			_{هو} 4. ق د	Abnormal		
	8 8						
Abnormal	64			.0			
Jul2/24 .	Jui2/24 +			Jul2/24	Jul2/24		
	7						

Accredited Unique Number : 5802757 Diagnosed : 04 Jul 2024 - Kevin Marson CA M8W 0B3 Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KV40, PercentFuel, VI, Visual) Contact: Service To discuss this sample report, contact Customer Service at 1-800-268-2131. etobservice@visiontruckgroup.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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Contact/Location: Service ? - PER415ETO Page 2 of 2

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