

OIL ANALYSIS REPORT



Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

A Recommendation

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

A Wear

Machine Id **P04** Component

Cylinder, crank, or cam shaft wear is indicated.

Contamination

No evidence of coolant present in the oil. There is no indication of any contamination in the oil.

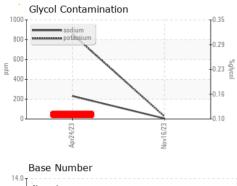
Fluid Condition

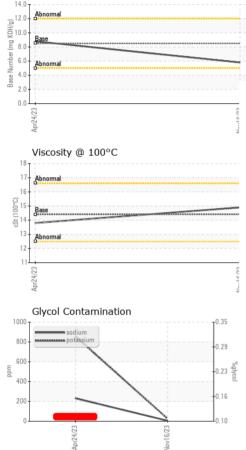
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number Client Info PCA0069355 PCA0043203 Sample Date Client Info 16 Nov 2023 24 Apr 2023 Machine Age mls Client Info 0 808289 Oil Age mls Client Info 0 15000 Oil Changed Client Info N/A Changed Sample Status Image: Client Info N/A Changed	
Machine Age mls Client Info 0 808289 Oil Age mls Client Info 0 15000 Oil Changed Client Info N/A Changed	
Oil Age mls Client Info 0 15000 Oil Changed Client Info N/A Changed	
Oil Changed Client Info N/A Changed	
-	
Sample Status ABNORMAL SEVERE	
CONTAMINATION method limit/base current history1 his	story2
Fuel WC Method >5 <1.0	
Water WC Method >0.2 NEG NEG	
WEAR METALS method limit/base current history1 history1	story2
Iron ppm ASTM D5185m >100 ▲ 117 44	
Chromium ppm ASTM D5185m >20 3 1	
Nickel ppm ASTM D5185m >4 <1 0	
Titanium ppm ASTM D5185m <1	
Silver ppm ASTM D5185m >3 <1 0	
Aluminum ppm ASTM D5185m >20 4 1	
Lead ppm ASTM D5185m >40 10 2	
Copper ppm ASTM D5185m >330 16 15	
Tin ppm ASTM D5185m >15 3 <1	
Vanadium ppm ASTM D5185m <1	
Cadmium ppm ASTM D5185m <1	
ADDITIVES method limit/base current history1 his	story2
Boron ppm ASTM D5185m 250 16 5	
Barium ppm ASTM D5185m 10 1 0	
Molybdenum ppm ASTM D5185m 100 65 142	
Manganese ppm ASTM D5185m 2 <1	
Magnesium ppm ASTM D5185m 450 1027 904	
Calcium ppm ASTM D5185m 3000 1352 1031	
Calcium ppm ASTM D5185m 3000 1352 1031 Phosphorus ppm ASTM D5185m 1150 1139 902	
Calcium ppm ASTM D5185m 3000 1352 1031 Phosphorus ppm ASTM D5185m 1150 1139 902 Zinc ppm ASTM D5185m 1350 1377 1177	
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Calcium ppm ASTM D5185m 3000 1352 1031 Phosphorus ppm ASTM D5185m 1150 1139 902 Zinc ppm ASTM D5185m 1350 1377 1177 Sulfur ppm ASTM D5185m 4250 3187 3311 CONTAMINANTS method limit/base current history1 hist Silicon ppm ASTM D5185m >25 8 6 Sodium ppm ASTM D5185m >25 8 6 Potassium ppm ASTM D5185m >20 25 A 857	story2
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Calcium ppm ASTM D5185m 3000 1352 1031 Phosphorus ppm ASTM D5185m 1150 1139 902 Zinc ppm ASTM D5185m 1350 1377 1177 Sulfur ppm ASTM D5185m 4250 3187 3311 CONTAMINANTS method limit/base current history1 hist Silicon ppm ASTM D5185m >25 8 6 Sodium ppm ASTM D5185m >25 8 6 Sodium ppm ASTM D5185m >20 25 4 857 Glycol % *ASTM D2982 NEG 0.12	story2
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Calcium ppm ASTM D5185m 3000 1352 1031 Phosphorus ppm ASTM D5185m 1150 1139 902 Zinc ppm ASTM D5185m 1350 1377 1177 Sulfur ppm ASTM D5185m 4250 3187 3311 CONTAMINANTS method limit/base current history1 hist Silicon ppm ASTM D5185m >25 8 6 Sodium ppm ASTM D5185m >25 8 6 Potassium ppm ASTM D5185m >20 25 4 857 Glycol % 'ASTM D2982 NEG 0.12	
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Calcium ppm ASTM D5185m 3000 1352 1031 Phosphorus ppm ASTM D5185m 1150 1139 902 Zinc ppm ASTM D5185m 1350 1377 1177 Sulfur ppm ASTM D5185m 4250 3187 3311 CONTAMINANTS method limit/base current history1 hist Silicon ppm ASTM D5185m >25 8 6 Sodium ppm ASTM D5185m >25 8 6 Sodium ppm ASTM D5185m >20 25 & 857 Glycol % *ASTM D2982 NEG 0.12 INFRA-RED method limit/base current history1 hist Soot % % *ASTM D7844 >3 1.3 0.5 Nitration Abs/cm *ASTM D7415 >30	story2



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I ,	т 0.35	VISUAL		method	limit/base	current	history1	history2
		White Metal	scalar	*Visual	NONE	NONE	NONE	
	-0.29	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	-0.23 kg	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	<u> </u>	Silt	scalar	*Visual	NONE	NONE	NONE	
	-0.16	Debris	scalar	*Visual	NONE	NONE	NONE	
	0.10	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
3/23	0.10	Appearance	scalar	*Visual	NORML	NORML	NORML	
Nov16/23		Odor	scalar	*Visual	NORML	NORML	NORML	
		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
		Free Water	scalar	*Visual	2 0.L	NEG	NEG	
					1:			
		FLUID PROPE		method	limit/base	current	history1	history2
		Visc @ 100°C GRAPHS	cSt	ASTM D445	14.4	14.9	13.8	
		Ferrous Alloys						
		120 T			and a state of the			
	66/31	100		- Contraction Contraction				
	Maxi	80						
			and the second se					
		He 60						
		40						
		20-						
		2 2 2			23			
		Apr24/23			Nov16/23			
					Z			
	6	Non-ferrous Metal	S					
	101	copper						
	VI	12+						
1		10						
	T ^{0.35}	8 8-		- TANGGARAN PROFILED	Market and			
	-0.29	6	ARRENT CONTRACTOR OF THE OWNER	appear.				
		4						
	-0.23 gr	2-			DAMPENDE			
•								
	-0.16				8/23 -			
	0.10	Apr24/23			Nov16/23			
Nov16/23 -	0.10	Viscosity @ 100°C						
Nov1		¹⁸ 1			14.	Base Number		
		17- Abnormal			12.	Abnormal		
		16-				- -		
					번 10.	0 - Base		
		2015 - Base 83 14			(0/H0.) Bull KOH Bull KOH BULK BULK KOH BULK KOH	0 -		
		형 ¹⁴			qu 6.	Abnormal		
		13 Abnormal			as 4.			
		12-			2.	0		
		11						
		4/23						
		Apr24/23			Nov16/23	Apr24/23		
	Laboratory	: WearCheck USA - 50	1 Madiso	n Ave., Carv	. NC 27513		LEFEBVI	RE AND SON
	Sample No.	: PCA0069355	Recei		Mar 2024			71ST AVE N
REDITED	Lab Number		Teste		Mar 2024			LK RIVER, M
ING LABORATORY	Unique Number		Diagr		Mar 2024 - Jona	than Hester		US 553
ficate L2367	Test Package	: FLEET	-					AY LEFEBVF
discuss th		, contact Customer Servi			Э.		jay.lefebvre	e@leftruck.co
		are outside of the ISO 1.						