

OIL ANALYSIS REPORT

Sample Rating Trend



Area [26766] **PREVOST 1803**

Diesel Engine Fluid

DIESEL ENGINE OIL SAE 10W30 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

Contaminants

The water content is negligible. There is no indication of any contamination in the oil.

Oil 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 INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0916705		
Sample Date		Client Info		25 Mar 2024		
Machine Age	kms	Client Info		545865		
Oil Age	kms	Client Info		24000		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>100	9		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>2	0		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>25	6		
Lead	ppm	ASTM D5185(m)	>40	0		
Copper	ppm	ASTM D5185(m)	>330	2		
Tin	ppm	ASTM D5185(m)	>15	0		
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	3		
Barium	ppm	ASTM D5185(m)	10	0		
Molybdenum	ppm	ASTM D5185(m)	100	8		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	450	18		
Calcium	ppm	ASTM D5185(m)	3000	3000		
Phosphorus	ppm	ASTM D5185(m)	1150	1095		
Zinc	ppm	ASTM D5185(m)	1350	1317		
Sulfur	ppm	ASTM D5185(m)	4250	3738		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	8		
Water	%	ASTM D6304*	>0.2	0.036		
ppm Water	ppm	ASTM D6304*	>2000	368		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1		
Nitration	Abs/cm	ASTM D7624*	>20	8.6		
Nitration Sulfation	Abs/cm Abs/.1mm	ASTM D7624* ASTM D7415*	>20 >30	8.6 21.5		



OIL ANALYSIS REPORT

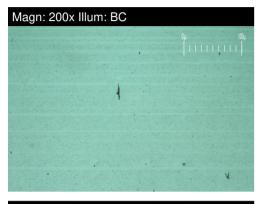
Oxidation				FLUID DEGRADA		method	limit/base		history1	history
Vidation Nitration				Dxidation	Abs/.1mm	ASTM D7414*	>25	13.4		
			E	Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	8.75		
5				VISUAL		method	limit/base	current	history1	history
0-			۷	White Metal	scalar	Visual*	NONE	NONE		
		*****		ellow Metal	scalar	Visual*	NONE	NONE		
Mar25/24		Mar25/24		Precipitate	scalar	Visual*	NONE	NONE		
Marí		Mará		Silt	scalar	Visual*	NONE	VLITE		
Water (KF)				Debris	scalar	Visual*	NONE	NONE		
0				Sand/Dirt	scalar	Visual*	NONE NORML	NONE NORML		
0 - d				Appearance Odor	scalar scalar	Visual* Visual*	NORML	NORML		
0+				Emulsified Water	scalar	Visual*	>0.2	NEG		
10				Free Water	scalar	Visual*	20.L	NEG		
0 - Abnormal				FLUID PROPERT	IES	method	limit/base	current	history1	history
			1	/isc @ 100°C	cSt	ASTM D7279(m)	10.9	11.7		
Mar25/24		Mar25/24	,	GRAPHS	COL	AGTINI D7273(III)	10.5	11.7		
\geq		W		Iron (ppm)				Lead (ppm)		
PQ			250	Severe						
Severe			200- = 150-	0				80		
- 0			E 100	Abnormal				40 - Abnormal		
Abaamad			50	-				20 -		
D - dbnormal			0	5/24			5/24	2/54		
)-				Mar25/24			Mar25/24	Mar25/24		
) <u>L</u>		5		Aluminum (ppm)				Chromium (p	pm)	
Mar25/24		Mar25/24	50· 40·	Severe				50 40 Severe		
2		2	= 30-	Abnormal				30		
Viscosity @ 100)°C		년 20.	1			ppr	20 Abnormal		********
			10- 0-					0		
2 Abnormal				ar 25/24			Mar25/24	Mar25/24		
2 Base				N N			Ma			
			400	Copper (ppm)				Silicon (ppm)		
9- 9-			300	SEVECEmal.				60 -		
84		v.	L 200				E E	40 - Abnormal		
Mar25/24		Cí] C~~	100	+				20 - Abnormal		
2		74	0	54			24	0		
PQ				/lar25/24			Mar25/2	Mar25/		
Severe				Viscosity @ 100°C			2	 Base Number	-	
)+			14	T			(B/HOX	Abnormal		
Abaamal			ତ୍ <u></u> 12	Abnormal			E10	.0 - Base		
Abnormal			cSt (100°C)	Base			e e	.0 - Abnormal		
D			8	Abnormal			8			
		VC	0	Mar25/24 -			Mar25/24	st*		
Mar25/24		-		Mar2			Mar2	Mar25/2		

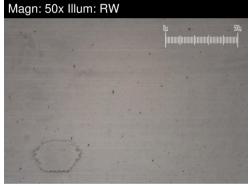
Report Id: ONT567NOR [WCAMIS] 02628338 (Generated: 04/22/2024 08:19:03) Rev: 1

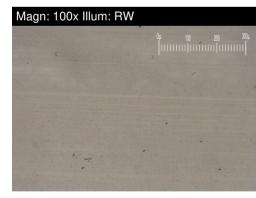
Submitted By: Ed Violette

FERROGRAPHY REPORT

Area [26766] PREVOST 1803 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 10W30 (--- GAL)



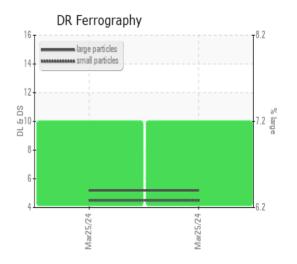




DR-FERROGRAP	PHY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		5.2		
Small Particles		DR-Ferr*		4.5		
Total Particles		DR-Ferr*	>	9.7		
Large Particles Percentage	%	DR-Ferr*		7.2		
Severity Index		DR-Ferr*		4		
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		1		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		1		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		1		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1		

WEAF

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.



This page left intentionally blank