

Machine Id

PRINCETON 1354							
Component Diesel Engine							
Fluid							
DIESEL ENGINE OIL SAE 5W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0893876		
Resample at the next service interval to monitor.	Sample Date		Client Info		29 Jan 2024		
	Machine Age	hrs	Client Info		714		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
				400	_		
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m		5		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium Silver	ppm	ASTM D5185m	0	0		
	Aluminum	ppm	ASTM D5185m ASTM D5185m		0		
	Lead	ppm	ASTM D5185m		2 0		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm ppm	ASTM D5185m	>15	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		304141	Visual	NONE			
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25	4		
	Potassium	ppm	ASTM D5185m	>20	0		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.5		
	Sulfation	Abs/.1mm	*ASTM D7415		12.6		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance		*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
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.	Sodium	ppm	ASTM D5185m	-44	<1		
	Boron	ppm	ASTM D5185m	250	106		
	Barium	ppm	ASTM D5185m	10	0		
	Molybdenum	ppm	ASTM D5185m		66		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	450	968		
	Calcium	ppm	ASTM D5185m		1285		
	Phosphorus	ppm	ASTM D5185m		850		

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

966

2228

8.9

10.3

12.8

ASTM D5185m 1350

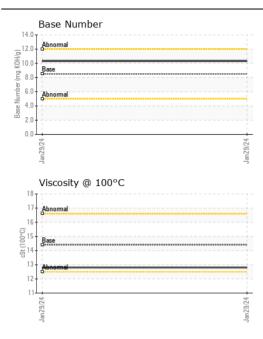
ASTM D445 14.4

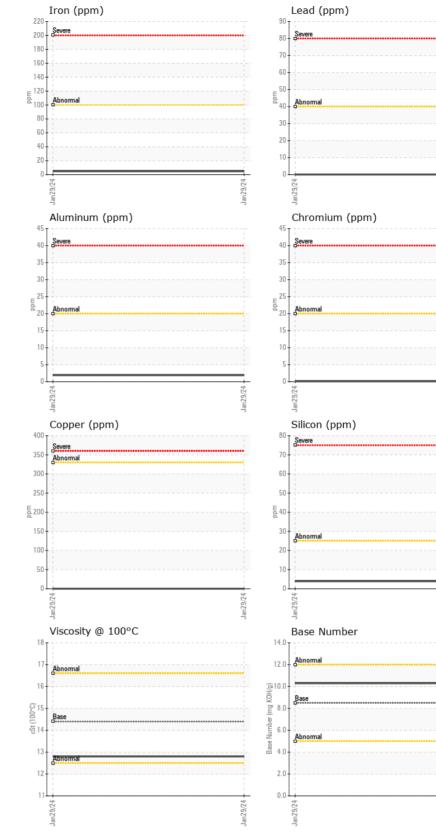
ppm ASTM D5185m 4250

Abs/.1mm *ASTM D7414 >25

ppm

Base Number (BN) mg KOH/g ASTM D2896 8.5





CONCRETE SERVICE CO - FAY BLOCK Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0893876 Received 161 BUILDERS BLVD : 12 Feb 2024 Lab Number : 06085869 Tested : 13 Feb 2024 FAYETTEVILLE, NC Unique Number : 10873314 Diagnosed : 13 Feb 2024 - Wes Davis US 28301 Test Package : MOB 1 (Additional Tests: TBN) Contact: Service Manager 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Contact/Location: Service Manager - CONFAY