

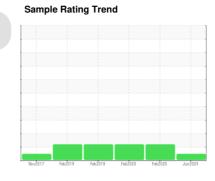
OIL ANALYSIS REPORT



CONSTRUCTORS, INC 131704

Diesel Engine

MOBIL SUPER 1000 10W30 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

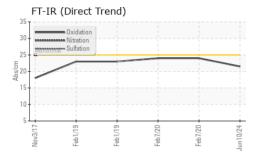
Fluid Condition

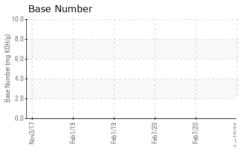
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

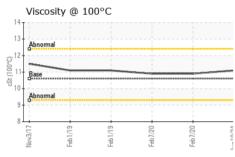
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006780	SBP41421055	SBP41421055
Sample Date		Client Info		10 Jun 2024	07 Feb 2020	07 Feb 2020
Machine Age	hrs	Client Info		2725	2327	2327
Oil Age	hrs	Client Info		398	493	493
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>100	58	20	20
Chromium	ppm			58 1	1	1
	ppm	ASTM D5185m				
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m			0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		5	3	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper Tin	ppm			6	0	0
	ppm		>15	0		
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		2	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		45	28	28
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		41	35	35
Manganese	ppm	ASTM D5185m		2	0	0
Magnesium	ppm	ASTM D5185m		503	449	449
Calcium	ppm	ASTM D5185m		1789	1446	1446
Phosphorus	ppm	ASTM D5185m		756	688	688
Zinc	ppm	ASTM D5185m		899	709	709
Sulfur	ppm	ASTM D5185m		2695		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	3	3
Sodium	ppm	ASTM D5185m		6	3	3
Potassium	ppm	ASTM D5185m	>20	3	1	1
Chlorine	ppm	ASTM D5185m			0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.28	0.28
Nitration	Abs/cm	*ASTM D7624	>20	9.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8		
FLUID DEGRADATION method limit/base current history1 history						history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5	<u>^</u> 24	<u> </u>
Base Number (BN)	mg KOH/g	ASTM D2896		8.9		
Dasc Number (DIV)						



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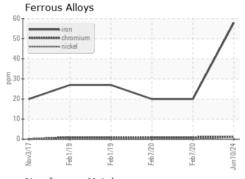


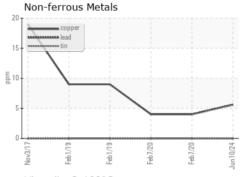


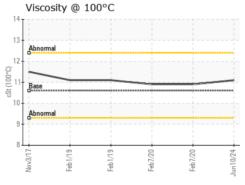
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		

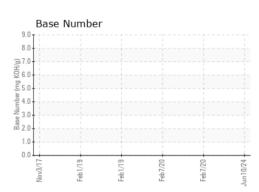
FLUID PROPER	IIIES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	10.6	11.1	10.9	10.9

GRAPHS













Certificate 12367

Laboratory Sample No. : SBP0006780 Lab Number : 06209430 Unique Number : 11076891

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Jun 2024 **Tested**

: 17 Jun 2024 Diagnosed : 17 Jun 2024 - Don Baldridge

Lincoln, NE US 68508 Contact: Loren Michael

Constructors Inc. - 603659

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. LorenM@constructorslincoln.com T: (402)434-2157

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: CONLINNE [WUSCAR] 06209430 (Generated: 06/17/2024 11:49:17) Rev: 1

Submitted By: Loren Michael

1815 Y Street