

OIL ANALYSIS REPORT

CONSTRUCTORS, INC 03-0327 Component

Diesel Engine

MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

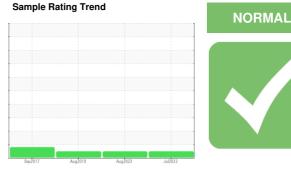
All component wear rates are normal.

Contamination

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 INFORMATION method limit/base current history1 history2 Sample Number Client Info SBP0004538 SBP0001221 SBP28341030 Sample Date Client Info 14 Jul 2023 17 Aug 2022 14 Aug 2019 Machine Age hrs Client Info 15618 15290 14635 Oil Age hrs Client Info 328 320 118 Oil Changed Client Info Changed Changed Changed Changed Sample Status method limit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 Glycol WC Method >5 <1.0 <1.0 <1.0 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 12 11 7 Keal ppm ASTM D5185m >30 0 0 0 <t< th=""></t<>
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Zinc ppm ASTM D5185m 1245 834 904
Sulfur ppm ASTM D5185m 3779 2554
CONTAMINANTS method limit/base current history1 history2
Silicon ppm ASTM D5185m >25 4 5 6
Sodium ppm ASTM D5185m 2 1 3
Potassium ppm ASTM D5185m >20 2 0 1
Chlorine ppm ASTM D5185m 0
INFRA-RED method limit/base current history1 history2
Soot % % *ASTM D7844 >3 0.2 0.2 0.38

Sulfation	Abs/.1mm	^ASTM D/415	>30	20.8	24.0	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	22.9	7
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	8.7	9.6	



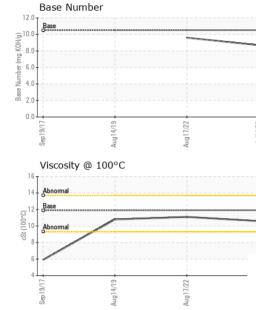
OIL ANALYSIS REPORT

scalar

*Visual

VISUAL

White Metal



Certificate 12367 Sample Nu Lab Numb Unique Num Test Pack	Laboratory Sample No. Lab Number Unique Number Test Package	: SBP0004538 : 05900665 : 10562021 : FLEET	501 Madison Ave., Cary, NC 27513Received: 17 Jul 2023Diagnosed: 19 Jul 2023Diagnostician: Doug Bogartvice at 1-800-237-1369.				Constructors Inc 603659 1815 Y Street Lincoln, NE US 68508 Contact: Jack Linhart jackl@constructorslincoln.com	
		Sep 19/17		Aug17/22	2 		Aug14/19	Juli 4/23
		Abnormal			Base	.0		
		14 - Abnormal 12 - Base			10	0 - Base		
		Viscosity @ 100°	°C	Aug		Base Number		
		2		Aug 17/22	Jul14/23			
		6- #4-						
		Non-ferrous Met	als					
		Aug 14/19		Aug17/22	Jul14/23			
		4 2						
	Aug17/22 + -	10- 8-	/					
		GRAPHS Ferrous Alloys	001	Actin D Ho		1010		10.0
		FLUID PROPEF Visc @ 100°C	RTIES cSt	method ASTM D445	limit/base	current 10.6	history1 11.1	history2 10.8
2	1	Free Water	scalar	*Visual	201 <u></u>	NEG	NEG	
	Aug17/22 Jul14/23	Odor Emulsified Water	scalar	*Visual *Visual	NORML >0.2	NORML	NORML	
	1/22 + 4/23 +	Sand/Dirt Appearance	scalar scalar	*Visual *Visual	NONE	NONE	NONE	
		Silt Debris	scalar scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE NONE	
		Yellow Metal Precipitate	scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE NONE	

NONE

NONE

NONE
