

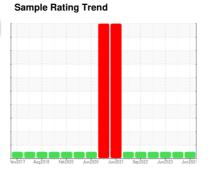
OIL ANALYSIS REPORT

CONSTRUCTORS, INC

01-0047

Diesel Engine

MOBIL DELVAC 1300 SUPER 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

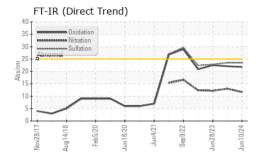
Fluid Condition

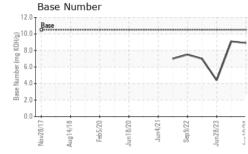
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

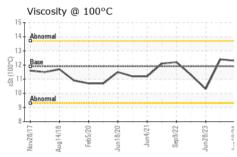
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0006742	SBP0004887	SBP0004519
Sample Date		Client Info		10 Jun 2024	26 Oct 2023	28 Jun 2023
Machine Age	hrs	Client Info		12101	11485	10978
Oil Age	hrs	Client Info		616	507	508
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	43	32	40
Chromium	ppm	ASTM D5185m	>5	2	2	<1
Nickel	ppm	ASTM D5185m	>4	1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	5	4	2
Lead	ppm	ASTM D5185m	>25	9	2	0
Copper	ppm	ASTM D5185m	>100	3	1	2
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		2	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	7	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		71	63	59
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		1177	1017	961
Calcium	ppm	ASTM D5185m		1406	1267	1151
Phosphorus	ppm	ASTM D5185m		1162	1116	994
Zinc	ppm	ASTM D5185m		1469	1370	1238
Sulfur	ppm	ASTM D5185m		3531	2969	3513
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	7	17
J						
Sodium	ppm	ASTM D5185m		6	6	15
Sodium	ppm	ASTM D5185m ASTM D5185m	>20	6 4	6 2	15 6
Sodium			>20 limit/base			
Sodium Potassium INFRA-RED		ASTM D5185m		4	2	6
Sodium Potassium	ppm	ASTM D5185m method	limit/base	4 current	2 history1	6 history2
Sodium Potassium INFRA-RED Soot %	ppm %	ASTM D5185m method *ASTM D7844	limit/base >6 >20	current 0.4	2 history1 0.5	6 history2
Sodium Potassium INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	Method *ASTM D7844 *ASTM D7624	limit/base >6 >20	4 current 0.4 11.7	2 history1 0.5 13.0	6 history2 1 12.2
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base	4 current 0.4 11.7 23.5	2 history1 0.5 13.0 23.5	6 history2 1 12.2 22.8

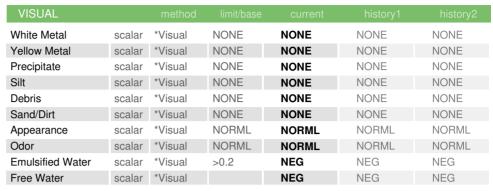


OIL ANALYSIS REPORT



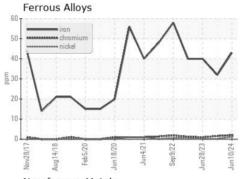


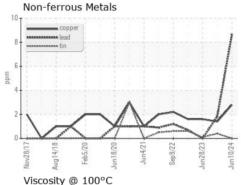


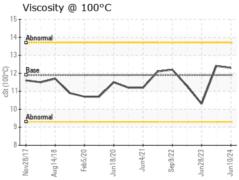


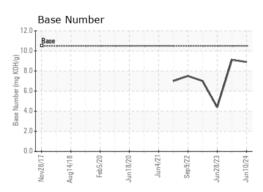
FLUID PROPER	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	11.9	12.3	12.4	10.3

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06209438 Unique Number : 11076899

: SBP0006742 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested** Diagnosed

: 17 Jun 2024

: 13 Jun 2024

: 17 Jun 2024 - Don Baldridge

US 68508 Contact: Loren Michael LorenM@constructorslincoln.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (402)434-2157

Constructors Inc. - 603659

1815 Y Street

Lincoln, NE