

OIL ANALYSIS REPORT

Sample Rating Trend

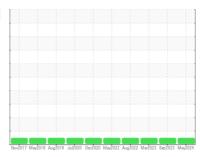
NORMAL

CONSTRUCTORS, INC

141850

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

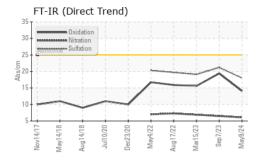
Fluid Condition

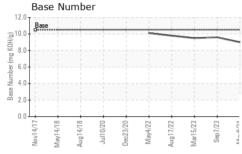
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

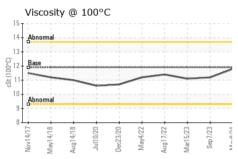
CAMPLE INCOR	AATION		12 - 24 //		12.4	1:
SAMPLE INFORM	MATION	method	limit/base		history1	history2
Sample Number		Client Info		SBP0007154	SBP0004589	SBP0003712
Sample Date		Client Info		09 May 2024	07 Sep 2023	15 Mar 2023
Machine Age	hrs	Client Info		5211	4894	4525
Oil Age	hrs	Client Info		317	369	410
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	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	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	10	11	17
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	5
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	1	0	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6	60	17
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		61	44	57
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		904	592	848
Calcium	ppm	ASTM D5185m		1135	1756	1297
Phosphorus	ppm	ASTM D5185m		1006	776	951
Zinc	ppm	ASTM D5185m		1212	952	1162
Sulfur	ppm	ASTM D5185m		3489	2931	2868
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	6	8
Sodium	ppm	ASTM D5185m		<1	3	<1
Potassium	ppm	ASTM D5185m	>20	2	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.1
Nitration	Abs/cm	*ASTM D7624		6.1	6.5	6.9
Sulfation	Abs/.1mm	*ASTM D7415		18.0	21.2	19.1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	19.4	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.0	9.6	9.5
(D/4)				0.0	0.0	0.0



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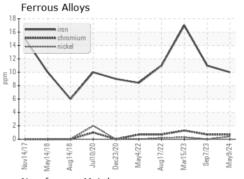


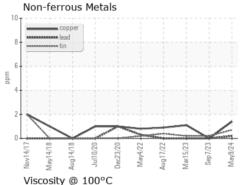


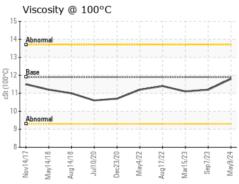


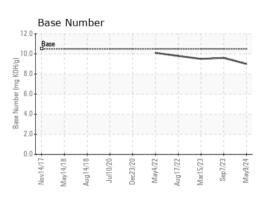
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	11.9	11.8	11.2	11.1













Laboratory Sample No.

: SBP0007154 Lab Number : 06178082 Unique Number : 11029408

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

: 14 May 2024 Diagnosed : 15 May 2024 - Sean Felton

: 13 May 2024

US 68508 Contact: Loren Michael LorenM@constructorslincoln.com

1815 Y Street

Lincoln, NE

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

T: (402)434-2157

* - 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)

Constructors Inc. - 603659