

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

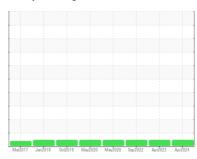
Area

CONSTRUCTORS, INC

10-0541

Diesel Engine

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





DIAGNOSIS

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.

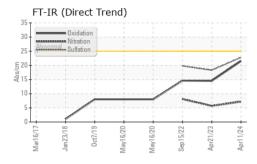
Fluid Condition

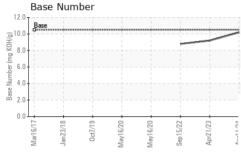
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

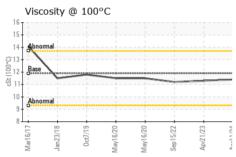
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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0005761	SBP0003727	SBP0001364
Sample Date		Client Info		11 Apr 2024	21 Apr 2023	15 Sep 2022
Machine Age	hrs	Client Info		2776	2653	2582
Oil Age	hrs	Client Info		123	71	56
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	Ν	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	>90	12	8	4
Chromium	ppm	ASTM D5185m		2	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium		ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
	ppm			4		1
Aluminum	ppm	ASTM D5185m			0	
Lead	ppm	ASTM D5185m	>40	3	1	1
Copper	ppm	ASTM D5185m		1	<1	<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		73	15	68
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		61	54	36
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		786	880	650
Calcium	ppm	ASTM D5185m		2237	1175	1483
Phosphorus	ppm	ASTM D5185m		1045	1001	810
Zinc	ppm	ASTM D5185m		1336	1236	972
Sulfur	ppm	ASTM D5185m		3573	3571	2890
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	6	6
Sodium	ppm	ASTM D5185m		4	2	1
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Chlorine	ppm	ASTM D5185m	·			
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.1	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.2	5.7	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	18.3	19.8
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5	14.5	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	10.2	9.2	8.8
2000 Hambor (DIV)	mg itoring	.101111 D2000	70.0	.0.2	U.L	0.0

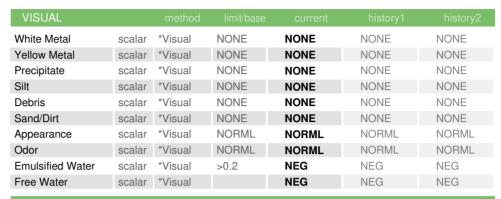


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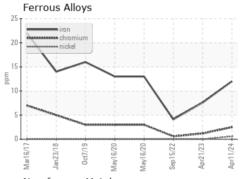


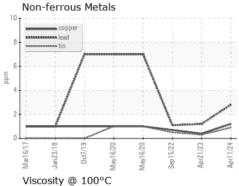


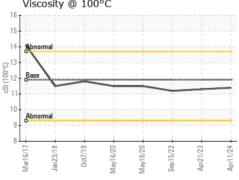


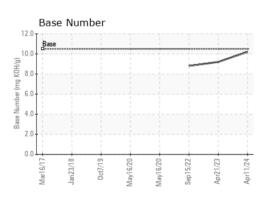
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	11.9	11.4	11.3	11.2	

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06156643

: SBP0005761 Unique Number : 10992066 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Apr 2024 **Tested** Diagnosed

: 23 Apr 2024

: 24 Apr 2024 - Sean Felton

Constructors Inc. - 603659 1815 Y Street Lincoln, NE US 68508

Contact: Loren Michael LorenM@constructorslincoln.com

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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (402)434-2157