

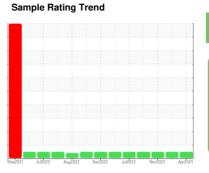
OIL ANALYSIS REPORT

CONSTRUCTORS, INC

040663

Gasoline Engine

MOBIL 1 5W30 (--- 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

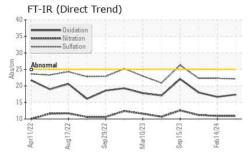
Fluid Condition

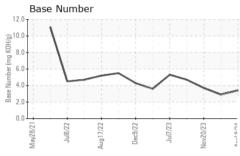
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

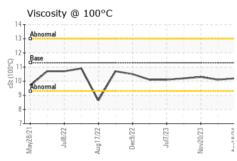
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
	WATION		IIIIIIVDase			
Sample Number		Client Info		SBP0005769	SBP0006345	SBP0004963
Sample Date		Client Info		18 Apr 2024	14 Feb 2024	20 Nov 2023
Machine Age	hrs	Client Info		5398	5051	4874
Oil Age	hrs	Client Info		347	177	345
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<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
ron	ppm	ASTM D5185m	>150	59	87	62
Chromium	ppm	ASTM D5185m	>20	3	3	2
Nickel	ppm	ASTM D5185m	>5	1	1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	4	4	4
Lead	ppm	ASTM D5185m	>50	<1	0	0
Copper	ppm	ASTM D5185m	>155	16	13	15
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	94	41	40	24
Barium	ppm	ASTM D5185m	0.0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0.0	70	66	68
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1388	490	486	506
Calcium	ppm	ASTM D5185m	820	1212	1076	1229
Phosphorus	ppm	ASTM D5185m	720	630	650	687
Zinc	ppm	ASTM D5185m	780	766	733	804
Sulfur	ppm	ASTM D5185m	2240	2761	2471	2667
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	10	11	10
Sodium	ppm	ASTM D5185m	>400	6	4	3
Potassium	ppm	ASTM D5185m	>20	3	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.9	10.9	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	22.3	22.3
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	16.7	18.0
Base Number (BN)	mg KOH/g	ASTM D2896		3.4	2.9	3.7

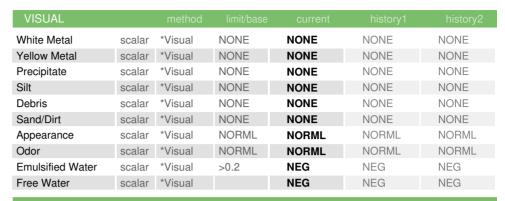


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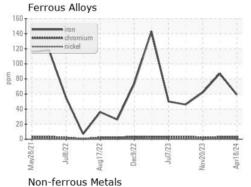


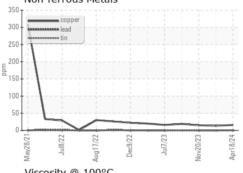


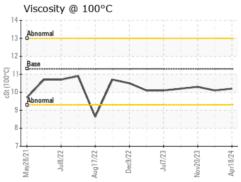


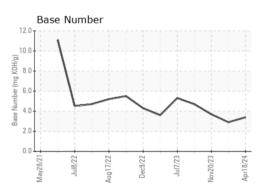
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	11.3	10.2	10.1	10.3	

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06156632

: SBP0005769 Unique Number : 10992055 Test Package : FLEET

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

: 22 Apr 2024 **Tested** : 23 Apr 2024

: 23 Apr 2024 - Wes Davis

Diagnosed

US 68508 Contact: Loren Michael

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

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)

Report Id: CONLINNE [WUSCAR] 06156632 (Generated: 04/23/2024 16:32:44) Rev: 1

Submitted By: Loren Michael

Constructors Inc. - 603659

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Lincoln, NE