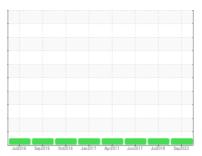


OIL ANALYSIS REPORT

OKLAHOMA/3 88.94GH [OKLAHOMA^3]

Diesel Engine

MOBIL 15W40 (--- GAL)



Sample Rating Trend



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

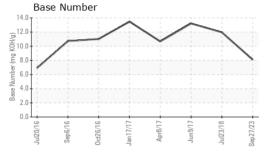
Fluid Condition

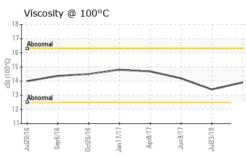
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0834105	WCCF0931	WCMCF32542
Sample Date		Client Info		27 Sep 2023	23 Jul 2018	09 Jun 2017
Machine Age	hrs	Client Info		6103	4166	2597
Oil Age	hrs	Client Info		403	250	242
Oil Changed	1113	Client Info		Changed	Changed	Changed
Sample Status		Ollerit IIIIO		NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	66	6	13
Chromium	ppm	ASTM D5185m	>20	2	0	<1
Nickel	ppm	ASTM D5185m	>4	2	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	<1	2
Lead	ppm	ASTM D5185m	>40	2	1	0
Copper	ppm	ASTM D5185m	>330	13	<1	<1
Tin	ppm	ASTM D5185m	>15	1	0	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		44	59	36
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		47	42	43
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		545	520	632
Calcium	ppm	ASTM D5185m		1851	1713	1426
Phosphorus	ppm	ASTM D5185m		742	662	747
Zinc	ppm	ASTM D5185m		992	865	910
Sulfur	ppm	ASTM D5185m		2459	2250	2857
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	5	4
Sodium		ASTM D5185m		10	4	5
	ppm	ASTM D5185m ASTM D5185m	>118	10 5	3	
Sodium	ppm	ASTM D5185m	>118	5	3	5 0
Sodium Potassium INFRA-RED	ppm	ASTM D5185m method	>118 >20 limit/base	5 current	3 history1	5 0 history2
Sodium Potassium INFRA-RED Soot %	ppm ppm	ASTM D5185m method *ASTM D7844	>118 >20 limit/base >3	5 current 0.8	3 history1 0.1	5 0 history2
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm	Method *ASTM D7844 *ASTM D7624	>118 >20 limit/base >3 >20	5 current 0.8 9.9	3 history1 0.1 6.	5 0 history2 0 5.
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>118 >20 limit/base >3 >20 >30	5 current 0.8 9.9 22.0	3 history1 0.1 6. 21.	5 0 history2 0 5. 14.
Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>118 >20 limit/base >3 >20 >30 limit/base	5 current 0.8 9.9 22.0 current	3 history1 0.1 6. 21. history1	5 0 history2 0 5. 14. history2
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>118 >20 limit/base >3 >20 >30 limit/base	5 current 0.8 9.9 22.0	3 history1 0.1 6. 21.	5 0 history2 0 5. 14.



OIL ANALYSIS REPORT

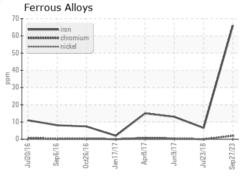


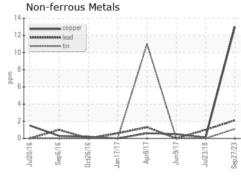


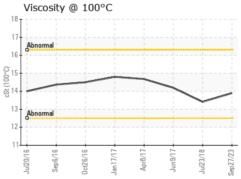
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

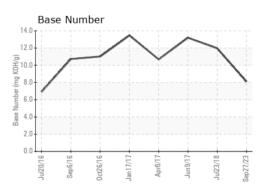
FLUID PROPER	HES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445		13.9	13.41	14.19

GRAPHS













Laboratory Sample No. Lab Number

: WC0834105 : 05966091 Unique Number : 10672642

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Oct 2023 Diagnosed : 03 Oct 2023

Diagnostician : Don Baldridge

Test Package : CONST (Additional Tests: TBN)

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)

SHERWOOD CONSTRUCTION CO INC

3219 WEST MAY ST WICHITA, KS US 67213 Contact: DOUG KING

doug.king@sherwood.net T: (316)617-3161

F: x: