

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



OKLAHOMA/102 69.105L [OKLAHOMA^102]

Diesel Engine

MOBIL DELVAC 1300

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: 2822 hrs)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

UPER15W40 (GAL)	Apr2022	Apr2023 Jun2023	Jui2023 Sep2023	Dec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864286	WC0848925	WC0834031
Sample Date		Client Info		18 Dec 2023	13 Sep 2023	20 Jul 2023
Machine Age	hrs	Client Info		2822	2603	2389
Oil Age	hrs	Client Info		2822	214	360
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINATION	١	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0	<1.0	<1.0
Vater		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	>100	13	6	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
- itanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	1
_ead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	13	7	20
in	ppm	ASTM D5185m	>15	0	<1	<1
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	44	45	32
Barium	ppm	ASTM D5185m	0	0	0	0
Nolybdenum	ppm	ASTM D5185m	0	42	39	41
Manganese	ppm	ASTM D5185m		0	<1	<1
//agnesium	ppm	ASTM D5185m	0	507	523	511
Calcium	ppm	ASTM D5185m		1737	1762	1866
Phosphorus	ppm	ASTM D5185m		771	777	827
inc	ppm	ASTM D5185m		959	939	1019
Sulfur	ppm	ASTM D5185m		2602	3223	3457
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	6
Sodium	ppm	ASTM D5185m		0	2	1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.8	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	21.3	21.9

Oxidation

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 9.4

19.3

9.3

18.9

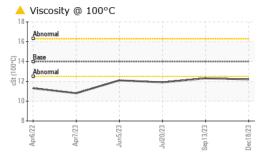
10.3

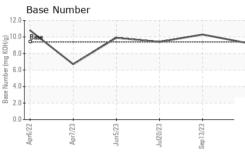
19.1

9.4



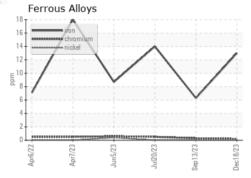
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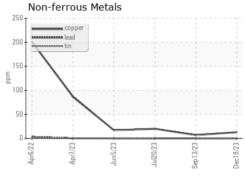


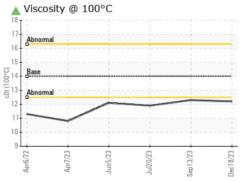


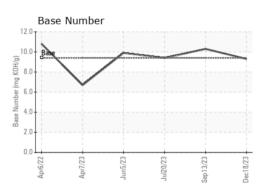
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 FROFER	TIES	memou			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	14	12.2	▲ 12.3	11.9













Laboratory Sample No. Lab Number Unique Number : 10822249

: WC0864286 : 06056300

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

: 10 Jan 2024 : 11 Jan 2024 Diagnostician : Angela Borella

3219 WEST MAY ST WICHITA, KS US 67213

Contact: SHAWN SOUTH shawn.south@sherwood.net

T: x: F: x:

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)

Report Id: SHEWIC [WUSCAR] 06056300 (Generated: 01/11/2024 16:24:35) Rev: 1

Submitted By: LOUIS BRESHEARS

SHERWOOD CONSTRUCTION CO INC