

# **OIL ANALYSIS REPORT**

NORMAL 

Sample Rating Trend



# Area OKLAHOMA/3/EG - TRUCK-OFF-HWY-HEAVY HAUL 69.01 [OKLAHOMA^3^EG - TRUCK-OFF-HWY-HEAVY HAUL] Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0914535	WC0886869	WC0778286
Sample Date		Client Info		01 Apr 2024	20 Feb 2024	28 Feb 2023
Machine Age	hrs	Client Info		23567	2443	22907
Oil Age	hrs	Client Info		567	166	22700
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATIO	N	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	7	7	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	1
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	1	2	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	57	55	65
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	0	38	39	41
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	0	482	449	464
Calcium	ppm	ASTM D5185m		1614	1516	1634
Phosphorus	ppm	ASTM D5185m		756	687	729
Zinc	ppm	ASTM D5185m		891	837	886
Sulfur	ppm	ASTM D5185m		2604	2589	2407
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	18	<b>3</b> 7	3
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m	>20	2	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.0	5.5	5.6
	Abs/.1mm	*ASTM D7415	>30	21.9	21.6	21.7
Sulfation	AUS/.IIIIII					
Sulfation FLUID DEGRADA		method	limit/base	current	history1	history2
				current 19.9	history1 19.2	history2 19.1

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

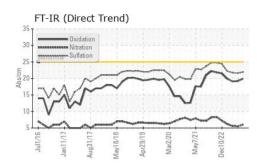
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

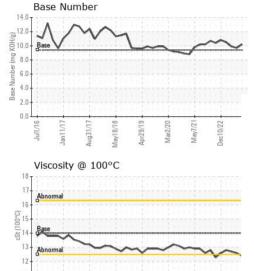


Jul1/16

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## **OIL ANALYSIS REPORT**





vor29/19

w18/18

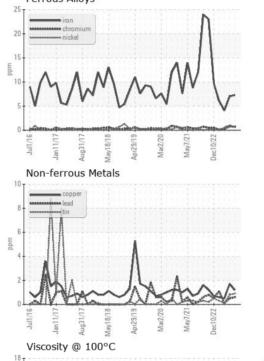
Mav7/21

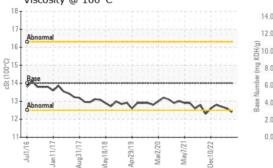
Jec10/22

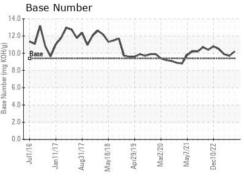
Aar2/20

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	TIES	method	limit/base	current	history1	history2
						· · · · · ·
Visc @ 100°C	cSt	ASTM D445	14	12.4	12.6	12.7
GRAPHS						

Ferrous Alloys







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SHERWOOD CONSTRUCTION CO INC Sample No. : WC0914535 Received : 05 Apr 2024 3219 WEST MAY ST Lab Number : 06139473 Tested : 05 Apr 2024 WICHITA, KS Unique Number : 10964281 Diagnosed : 05 Apr 2024 - Wes Davis US 67213 Test Package : CONST (Additional Tests: TBN) Contact: DOUG KING Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. doug.king@sherwood.net \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (316)617-3161 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x:

Report Id: SHEWIC [WUSCAR] 06139473 (Generated: 04/06/2024 01:24:35) Rev: 1

Submitted By: SHAWN SOUTH

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