

## **OIL ANALYSIS REPORT**

## NORMAL

Sample Rating Trend



Area

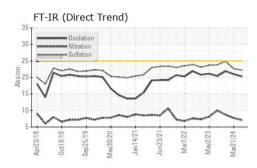
## OKLAHOMA/102/EG - DOZER 35.102L [OKLAHOMA^102^EG - DOZER] Diesel Engine Fluid

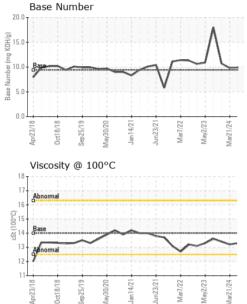
MOBIL DELVAC 1300 SUPER 15W40 (--- GAL)

AGNOSIS SAMPLE INFO	ORMATION	method	limit/base			history2
commendation Sample Number		Client Info		WC0914552	WC0873906	WC0873938
ample at the next service interval to monitor. Sample Date		Client Info		07 Jun 2024	21 Mar 2024	07 Nov 2023
ar Machine Age	hrs	Client Info		8490	8261	7971
component wear rates are normal. Oil Age	hrs	Client Info		229	290	263
oil Changed		Client Info		Changed	Changed	Changed
re is no indication of any contamination in the Sample Status				NORMAL	ATTENTION	SEVERE
CONTAMINA	TION	method	limit/base	current	history1	history2
d Condition Fuel		WC Method	>5	<1.0	<1.0	<1.0
BN result indicates that there is suitable Water Water		WC Method	>0.2	NEG	NEG	NEG
s suitable for further service. Glycol		WC Method		NEG	NEG	▲ 0.10
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	26	75
Chromium	ppm	ASTM D5185m	>20	<1	3	10
Nickel	ppm	ASTM D5185m	>2	0	1	2
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	6	6 16
Lead	ppm	ASTM D5185m	>40	1	<1	1
Copper	ppm	ASTM D5185m	>330	2	8	38
Tin	ppm	ASTM D5185m	>15	0	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	47	42	33
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	46	53	151
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m	<u>^</u>			
			0	537	502	538
Calcium	ppm	ASTM D5185m	0	537 1972	502 1661	538 1798
Calcium Phosphorus			0			
	ppm ppm ppm	ASTM D5185m	0	1972	1661	1798
Phosphorus	ppm	ASTM D5185m ASTM D5185m	0	1972 855	1661 770	1798 800
Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 limit/base	1972 855 1037	1661 770 939	1798 800 1002
Phosphorus Zinc Sulfur CONTAMINAT Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	limit/base	1972 855 1037 3244	1661 770 939 2634 history1 11	1798 800 1002 2706 history2 ▲ 49
Phosphorus Zinc Sulfur CONTAMINAI	ppm ppm ppm NTS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25	1972 855 1037 3244 current	1661 770 939 2634 history1	1798 800 1002 2706 history2
Phosphorus Zinc Sulfur CONTAMINAT Silicon	ppm ppm ppm NTS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	limit/base >25	1972 855 1037 3244 current 6	1661 770 939 2634 history1 11	1798 800 1002 2706 history2 ▲ 49
Phosphorus Zinc Sulfur CONTAMINAT Silicon Sodium	ppm ppm ppm NTS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25	1972 855 1037 3244 current 6 29	1661 770 939 2634 history1 11 85	1798 800 1002 2706 history2 ▲ 49 ▲ 585
Phosphorus Zinc Sulfur CONTAMINAI Silicon Sodium Potassium	ppm ppm ppm NTS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base	1972 855 1037 3244 current 6 29 5	1661 770 939 2634 history1 11 85 9	1798 800 1002 2706 history2 ▲ 49 ▲ 585 ▲ 62
Phosphorus Zinc Sulfur CONTAMINAI Silicon Sodium Potassium INFRA-RED	ppm ppm ppm NTS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base >3	1972 855 1037 3244 current 6 29 5 current	1661 770 939 2634 history1 11 85 9 9 history1	1798 800 1002 2706 history2 ▲ 49 ▲ 585 ▲ 62 history2
Phosphorus Zinc Sulfur CONTAMINAI Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm NTS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base >3 >20	1972 855 1037 3244 current 6 29 5 5 current 0.3	1661 770 939 2634 history1 11 85 9 9 history1 0.3	1798 800 1002 2706 history2 ▲ 49 ▲ 585 ▲ 62 history2 0.5
Phosphorus Zinc Sulfur CONTAMINAI Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm NTS ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base >3 >20	1972 855 1037 3244 current 6 29 5 current 0.3 7.1	1661 770 939 2634 history1 11 85 9 history1 0.3 7.7	1798 800 1002 2706 history2 ▲ 49 ▲ 585 ▲ 62 history2 0.5 8.7
Phosphorus Zinc Sulfur CONTAMINAI Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm NTS ppm ppm ppm ppm ppm kbs/cm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7624	limit/base >25 >20 limit/base >3 >20 >30 >30	1972 855 1037 3244 current 6 29 5 current 0.3 7.1 22.2	1661 770 939 2634 history1 11 85 9 <u>history1</u> 0.3 7.7 22.6	1798 800 1002 2706 <b>history2</b> ▲ 49 ▲ 585 ▲ 62 <b>history2</b> 0.5 8.7 24.9



## **OIL ANALYSIS REPORT**



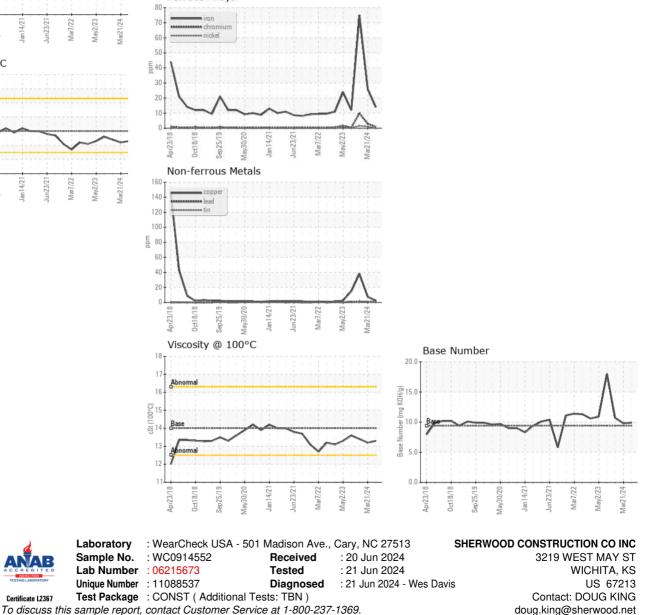


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	13.3	13.2	13.4
СВАРИС						

Ferrous Alloys

\* - 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] 06215673 (Generated: 06/23/2024 04:52:56) Rev: 1

Certificate 12367

Submitted By: RUSTY RILEY

Page 2 of 2

F: x:

T: (316)617-3161