

OIL ANALYSIS REPORT



Area OKLAHOMA/102/EG - DOZER 35.104L [OKLAHOMA^102^EG - DOZER] Diesel Engine

Fluid MOBIL DELVAC 1300 SUPER 15W40 (5 GAL)



Recommendation

Check for low coolant level. We advise that you check for the source of the coolant leak. We recommend an early resample to monitor this condition. (Customer Sample Comment: 6241 hours)

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

Sample Number		Client Info		WC0925201	WC0864259	WC0864352
Sample Date		Client Info		10 Jun 2024	14 Mar 2024	17 Jan 2024
Machine Age	hrs	Client Info		6241	5959	5659
Oil Age	hrs	Client Info		3600	3600	3600
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINATION	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
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	36	39	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	5	4	8
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	1	1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	14	52	41
Barium	ppm	ASTM D5185m	0	0	1	<1
Molybdenum	ppm	ASTM D5185m	0	85	50	42
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	0	516	533	537
Calcium	ppm	ASTM D5185m		1701	1881	1712
Phosphorus	ppm	ASTM D5185m		766	801	752
Zinc	ppm	ASTM D5185m		939	988	965
Sulfur	ppm	ASTM D5185m		2834	2673	2469
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	4
Sodium	ppm	ASTM D5185m		<mark> </mark> 211	28	3
Potassium	ppm	ASTM D5185m	>20	20	4	0
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.1	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	21.9	22.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	21.0	21.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.8	9.6	9.3



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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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	13.0	13.2	13.4

GRAPHS Ferrous Alloys



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SHERWOOD CONSTRUCTION CO INC Sample No. : WC0925201 Received : 17 Jun 2024 3219 WEST MAY ST Lab Number : 06212731 Tested : 20 Jun 2024 WICHITA, KS Unique Number : 11085595 Diagnosed : 20 Jun 2024 - Sean Felton US 67213 Test Package : CONST (Additional Tests: Glycol, 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:

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Submitted By: LOUIS BRESHEARS

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