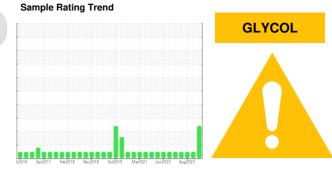


Area

OIL ANALYSIS REPORT



history1

history2

current

KANSAS/44/EG - DOZER 36.32L [KANSAS^44^EG - DOZER] **Diesel Engine** Fluid MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS SAMPLE INFORMATION method Recommendation We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Contamination Sodium and/or potassium levels are high.

Fluid Condition

Wear

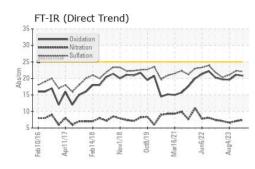
The BN result indicates that there is suitable alkalinity remaining in the oil.

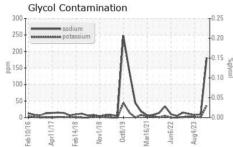
				Guirent	motory	motoryz
Sample Number		Client Info		WC0918129	WC0833819	WC0712129
Sample Date		Client Info		28 Mar 2024	23 Oct 2023	04 Aug 2023
Machine Age	hrs	Client Info		8407	8407	8178
Oil Age	hrs	Client Info		0	229	173
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	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	15	18	22
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	2	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	14	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	16	39	44
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	76	41	42
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	465	480	551
Calcium	ppm	ASTM D5185m		1623	1686	1814
Phosphorus	ppm	ASTM D5185m		717	839	805
Zinc	ppm	ASTM D5185m		868	893	986
Sulfur	ppm	ASTM D5185m		2472	2396	3209
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	6
Sodium	ppm	ASTM D5185m		🔺 181	10	7
Potassium	ppm	ASTM D5185m	>20	A 37	1	2
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.1	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	22.3	21.1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	21.1	19.6
Base Number (BN)	mg KOH/g	ASTM D2896		10.3	9.9	9.8
. /	÷ 0					

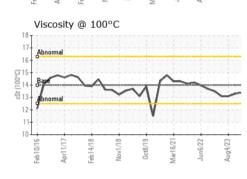
limit/base

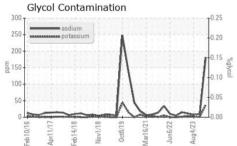


OIL ANALYSIS REPORT



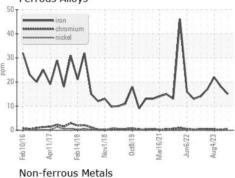


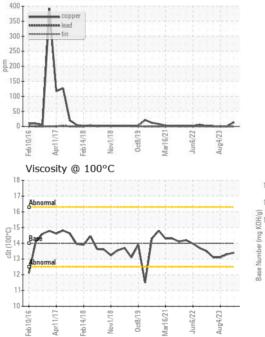


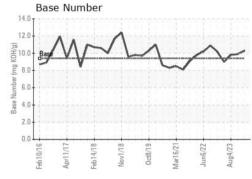


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.4	13.3	13.1
GRAPHS						

Ferrous Alloys







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SHERWOOD CONSTRUCTION CO INC Sample No. : WC0918129 Received : 04 Apr 2024 3219 WEST MAY ST Lab Number : 06138263 Tested : 09 Apr 2024 WICHITA, KS Unique Number : 10963071 Diagnosed : 09 Apr 2024 - Jonathan Hester 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:

Report Id: SHEWIC [WUSCAR] 06138263 (Generated: 04/09/2024 11:24:30) Rev: 1

Submitted By: JAMES MOORE

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