

OIL ANALYSIS REPORT

Area OKLAHOMA/102 05.78 [OKLAHOMA^102]

Diesel Engine Fluid MOBIL DELVAC 1300 SUPER15W40 (--- GAI

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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 oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

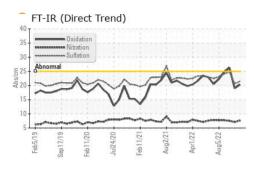
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L)		2019 Sep20	19 Feb2020 Jul2020	FebŹ021 AugŹ021 AprŹ022 .	Aug2022	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0886984	WC0874071	WC0741175
Sample Date		Client Info		10 Apr 2024	08 Dec 2023	27 Sep 2022
Machine Age	mls	Client Info		16600	14800	13000
Oil Age	mls	Client Info		200	200	200
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	NORMAL
CONTAMINATIC	DN	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m		4	2	3
Chromium	ppm	ASTM D5185m		- <1	0	<1
Nickel	ppm	ASTM D5185m		<1	0	1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m		3	<1	3
_ead	ppm	ASTM D5185m		<1	0	0
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	20	21	21
Barium	ppm	ASTM D5185m	0	<1	0	0
Volybdenum	ppm	ASTM D5185m	0	26	32	31
Vanganese	ppm	ASTM D5185m		<1	<1	<1
Vagnesium	ppm	ASTM D5185m	0	286	403	382
Calcium	ppm	ASTM D5185m		983	1231	1240
Phosphorus	ppm	ASTM D5185m		450	563	565
Zinc	ppm	ASTM D5185m		535	731	678
Sulfur	ppm	ASTM D5185m		1692	2139	2165
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m		13	22	7
Potassium	ppm	ASTM D5185m	>20	3	<1	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624		7.6	7.1	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	20.6	24.8
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	19.0	26.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.6	8.4	8.2
	ing iton/g		0.1	0.0	0.1	0.2

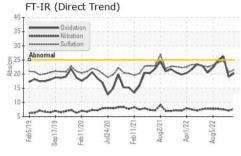
Sample Rating Trend

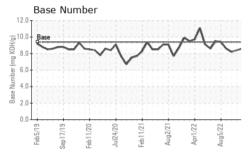
VISCOSITY



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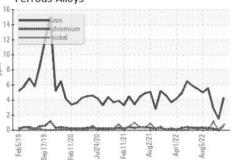




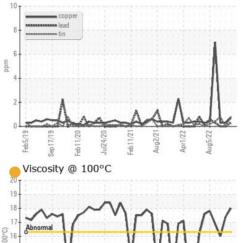


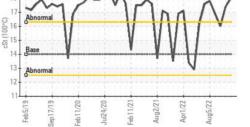
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	18.0	17.4	16.0
GRAPHS						

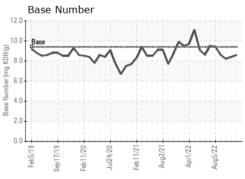
Ferrous Alloys











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SHERWOOD CONSTRUCTION CO INC Sample No. : WC0886984 Received : 22 Apr 2024 3219 WEST MAY ST Lab Number : 06156658 Tested : 23 Apr 2024 WICHITA, KS Unique Number : 10992081 Diagnosed : 24 Apr 2024 - Sean Felton 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] 06156658 (Generated: 04/24/2024 18:22:21) Rev: 1

Submitted By: BOBBY JONES

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