

OIL ANALYSIS REPORT

NORMAL ************************************

Sample Rating Trend





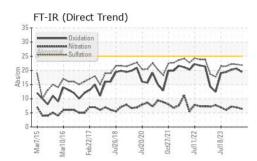
46.83L [COLORADO^443^EG - LOADER] Main Diesel Engine Fluid MOBIL DELVAC 1300 SUPER 15W40 (--- GAL)

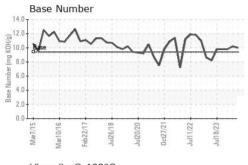
Area COLORADO/443/EG - LOADER

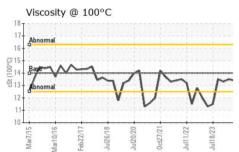
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0928712	WC0883980	WC0884066
Resample at the next service interval to monitor.	Sample Date		Client Info		05 Jun 2024	22 Mar 2024	03 Jan 2024
Wear	Machine Age	hrs	Client Info		14231	13977	13703
All component wear rates are normal.	Oil Age	hrs	Client Info		0	0	0
Contamination	Oil Changed		Client Info		Changed	Changed	Changed
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
oil.	CONTAMINATIC)N	method	limit/base	current	history1	history2
Fluid Condition	Fuel		WC Method			<1.0	<1.0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>100	9	13	26
	Chromium	ppm	ASTM D5185m	>20	<1	<1	1
	Nickel	ppm	ASTM D5185m	>2	0	<1	<1
	Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	4	5	8
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	2	2	2
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	Cadmium	ppm	ASTM D5185m		0	0	<1
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	52	39	41
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	42	44	51
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	0	486	540	626
	Calcium	ppm	ASTM D5185m		1701	1897	1871
	Phosphorus	ppm	ASTM D5185m		787	845	938
	Zinc	ppm	ASTM D5185m		933	1010	1111
	Sulfur	ppm	ASTM D5185m		2699	3239	3284
	CONTAMINANT	S	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	6	11
	Sodium	ppm	ASTM D5185m		10	18	25
	Potassium	ppm	ASTM D5185m	>20	1	1	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	6.9	7.2
	Sulfation	Abs/.1mm	*ASTM D7415		21.8	22.1	22.2
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	20.6	20.2
	Base Number (BN)				10.0	10.2	9.8
	Dage Hamber (DN)	ing itoniy	NOTINI DE000	0.1	10.0	10.2	0.0



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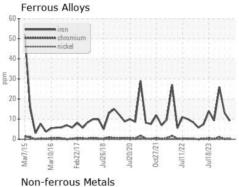


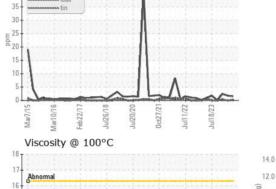


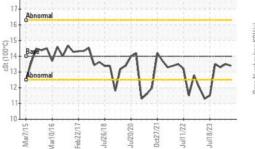
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.4	13.5	13.3
GRAPHS						

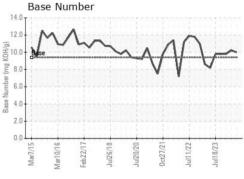
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SHERWOOD CONSTRUCTION CO INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0928712 Received : 12 Jun 2024 3219 WEST MAY ST Lab Number : 06207632 Tested : 13 Jun 2024 WICHITA, KS Unique Number : 11075093 Diagnosed : 13 Jun 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] 06207632 (Generated: 06/15/2024 07:31:43) Rev: 1

Submitted By: BRANDEN JAQUIAS

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