

Machine Id **428016-1034** Component **Diesel Engine** Fluid **MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		GFL0116022	GFL0097504	GFL0097473
	Sample Date		Client Info		22 May 2024	04 Mar 2024	27 Nov 2023
	Machine Age	hrs	Client Info		4936	4820	4664
	Oil Age	hrs	Client Info		4144	4144	4144
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	49	21	24
The aluminum level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2	<1	0
	Nickel	ppm	ASTM D5185m	>4	1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	1	0	0
	Aluminum	ppm	ASTM D5185m	>20	A 25	12	9
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>330	4	3	<1
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	3	3
	Potassium	ppm	ASTM D5185m	>20	13	4	7
There is a high amount of fuel present in the oil.	Fuel	%	ASTM D3524	>2.0	5 .2	3 .5	4.8
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.3	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	12.1	9.3	10.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	19.8	19.9
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		7	4	1
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	0	48	53	11
	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m	0	76	61	55
	Manganese	ppm	ASTM D5185m		1	<1	0
	Magnesium	ppm	ASTM D5185m	0	1299	1077	904
	Calcium	ppm	ASTM D5185m		1006	822	1086
	Phosphorus	ppm	ASTM D5185m		1152	951	893
	Zinc	ppm	ASTM D5185m		1441	1163	1189
	Sulfur	ppm	ASTM D5185m		3880	3217	2895
	Oxidation		*ASTM D7414	>25	21.2	18.1	17.3
		1/01/1	A OTH DOCCO	0.1			

8.7

13.3

7.1

12.3

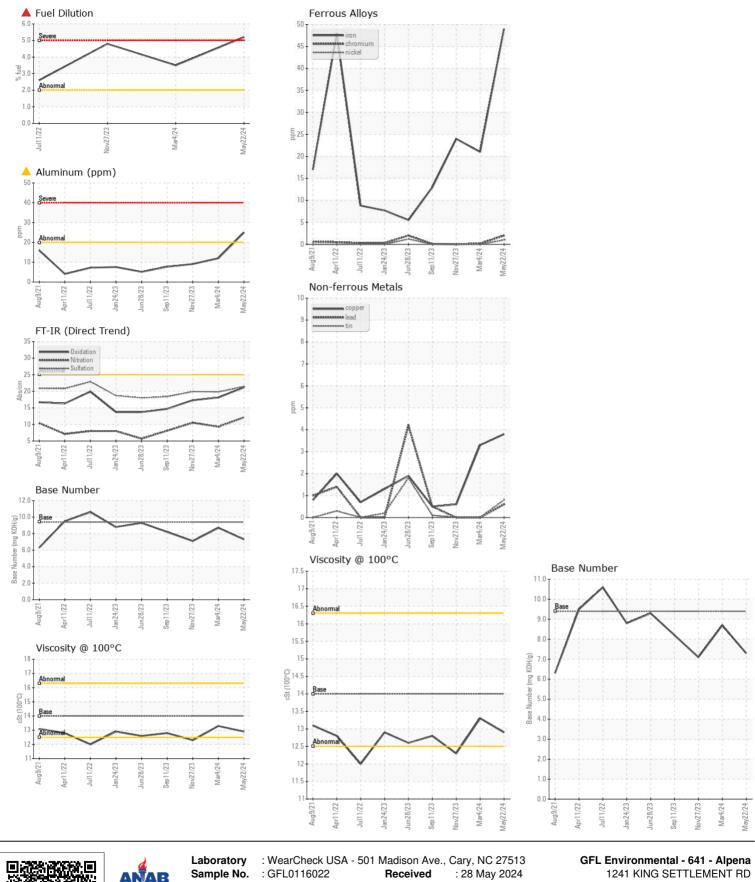
7.3

12.9

Base Number (BN) mg KOH/g ASTM D2896 9.4

ASTM D445 14

Visc @ 100°C cSt



Lab Number : 06191877 Tested : 29 May 2024 ALPENA, MI Diagnosed : 30 May 2024 - Sean Felton US 49707 Unique Number : 11048629 Test Package : FLEET (Additional Tests: PercentFuel) Contact: DYLAN TOLAN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dylan.tolan@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (989)854-7203 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)