

PROBLEM SUMMARY

Area OKLAHOMA/102/EG - OTHER SERVICE Machine Id 87.21 - TORQUE HUB [OKLAHOMA^102^EG - OTHER SERVICE] Component

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC T	DBLEMATIC TEST RESULTS						
Sample Status				SEVERE	NORMAL	NORMAL	
Fuel	%	ASTM D3524	>2.1	🛑 18.1	<1.0	<1.0	
Visc @ 100°C	cSt	ASTM D445	14	9.2	11.8	13.8	

Customer Id: SHEWIC Sample No.: WC0886928 Lab Number: 06098110 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED AC	DED ACTIONS				
Action	Status	Date	Done By	Description	
Resample			?	We recommend an early resample to monitor this condition.	
Check Fuel/injector System			?	We advise that you check the fuel injection system.	

HISTORICAL DIAGNOSIS



19 Nov 2020 Diag: Wes Davis

Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



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17 Oct 2019 Diag: Wes Davis



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

30 Jun 2016 Diag: Don Baldridge





Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

OKLAHOMA/102/EG - OTHER SERVICE 87.21 - TORQUE HUB [OKLAHOMA^102^EG - OTHER SERVICE] Component

Diesel Engine Fluic

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)



Sample Rating Trend

DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0886928	WC0501450	WC0337659
We advise that you check the fuel injection system.	Sample Date		Client Info		02 Feb 2024	19 Nov 2020	17 Oct 2019
The oil change at the time of sampling has been	Machine Age	hrs	Client Info		563	130	5287
noted. We recommend an early resample to monitor this condition.	Oil Age	hrs	Client Info		250	250	134
	Oil Changed		Client Info		Changed	Changed	N/A
Wear	Sample Status				SEVERE	NORMAL	NORMAL
All component wear rates are normal.	CONTAMINATIO	N	method	limit/hase	current	history1	history2
Contamination			MO Mathead	0.04	NEO	NEO	NEO
There is a high amount of the present in the oil. Tests confirm the presence of fuel in the oil.	vvater		WC Method	>0.21	NEG	NEG	NEG
Eluid Condition	Giycol		WC Welliou		NEG	NEG	NEG
The BN result indicates that there is suitable	WEAR METALS		method	limit/base	current	history1	history2
alkalinity remaining in the oil. Fuel is present in the	Iron	ppm	ASTM D5185m	>51	16	12	9
il and is lowering the viscosity. The oil is no longer	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
serviceable due to the presence of contaminants.	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	1	<1	2
	Lead	ppm	ASTM D5185m	>26	0	<1	0
	Copper	ppm	ASTM D5185m	>26	2	<1	1
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Antimony	ppm	ASTM D5185m			0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	45	60	62
	Barium	ppm	ASTM D5185m	0	0	0	<1
	Molybdenum	ppm	ASTM D5185m	0	14	40	42
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m	0	498	482	525
	Calcium	ppm	ASTM D5185m		1057	1611	1608
	Phosphorus	ppm	ASTM D5185m		535	690	681
	Zinc	ppm	ASTM D5185m		636	867	839
	Sulfur	ppm	ASTM D5185m		1971	1926	2379
	CONTAMINANTS	\$	method	limit/base	current	history1	history2
	Silicon	maa	ASTM D5185m	>22	4	4	7
	Sodium	ppm	ASTM D5185m	>31	3	2	5
	Potassium	ppm	ASTM D5185m	>20	2	<1	2
	Potassium Fuel	ppm %	ASTM D5185m ASTM D3524	>20 >2.1	2 ● 18.1	<1 <1.0	2 <1.0
	Potassium Fuel	ppm %	ASTM D5185m ASTM D3524 method	>20 >2.1 limit/base	2 18.1 current	<1 <1.0 history1	2 <1.0 h <u>istory2</u>
	Potassium Fuel INFRA-RED Soot %	ppm %	ASTM D5185m ASTM D3524 method *ASTM D7844	>20 >2.1 limit/base	2 18.1 current 0.1	<1 <1.0 history1	2 <1.0 history2 0.1
	Potassium Fuel INFRA-RED Soot % Nitration	ppm % %	ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624	>20 >2.1 limit/base >3 >20	2 18.1 current 0.1 10.2	<1 <1.0 history1 0.1 8.2	2 <1.0 history2 0.1 6.9
	Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >2.1 limit/base >3 >20 >30	2 18.1 Current 0.1 10.2 19.7	<1 <1.0 history1 0.1 8.2 23	2 <1.0 history2 0.1 6.9 21.1
	Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGBADA	ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D3524 *ASTM D7824 *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >2.1 limit/base >3 >20 >30 limit/base	2 18.1 0.1 10.2 19.7 Current	<1 <1.0 history1 0.1 8.2 23 history1	2 <1.0 history2 0.1 6.9 21.1 history2
	Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm % % Abs/cm Abs/.1mm Ation	ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>20 >2.1 limit/base >3 >20 >30 limit/base	2 18.1 0.1 10.2 19.7 current 18.1	<1 <1.0 history1 0.1 8.2 23 history1 21.8	2 <1.0 history2 0.1 6.9 21.1 history2
	Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA Oxidation	ppm % % Abs/cm Abs/.1mm Abs/.1mm Abs/.1mm	ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7624 *ASTM D7415 method *ASTM D7414	>20 >2.1 limit/base >3 >20 >30 limit/base >25	2 18.1 0.1 10.2 19.7 current 18.1 7.4	<1 <1.0 history1 0.1 8.2 23 history1 21.8 9.8	2 <1.0 history2 0.1 6.9 21.1 history2 19.7

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Submitted By: PATRICIA BIBLE



OIL ANALYSIS REPORT



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