



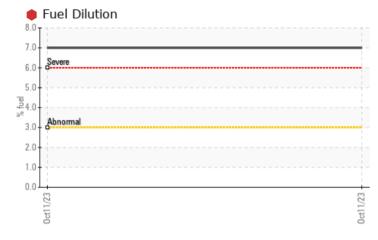
FUEL



Machine Id **14599**

Component Diesel Engine Fluid MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

COMPONENT CONDITION SUMMARY



▲ Viscosity @ 100°C



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 TEST RESULTS								
Sample Status				SEVERE				
Fuel	%	ASTM D3524	>3.0	• 7.0				
Visc @ 100°C	cSt	ASTM D445	14	10.9				

Customer Id: IDEBOI Sample No.: IL0033132 Lab Number: 06027087 Test Package: FLEET



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 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



OIL ANALYSIS REPORT

Sample Rating Trend



X

Machine Id

Component Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS

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.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

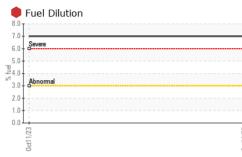
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

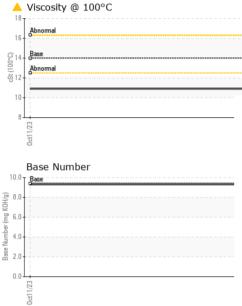
				Oct2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL0033132		
Sample Date		Client Info		11 Oct 2023		
Machine Age	mls	Client Info		44650		
Oil Age	mls	Client Info		11016		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>130	17		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	20		
Lead	ppm	ASTM D5185m	>20	<1		
Copper	ppm	ASTM D5185m	>125	1		
Tin	ppm	ASTM D5185m	>4	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	34		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	0	30		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	0	414		
Calcium	ppm	ASTM D5185m		1122		
Phosphorus	ppm	ASTM D5185m		538		
Zinc	ppm	ASTM D5185m		682		
Sulfur	ppm	ASTM D5185m		1762		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	55		
Fuel	%	ASTM D3524	>3.0	• 7.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4		
	Abs/cm	*ASTM D7624		8.7		
	Abs/.1mm	*ASTM D7415	>30	21.8		
FLUID DEGRADA	ΓΙΟΝ	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.0		
	mg KOH/g	ASTM D2896	9.4	9.3		



OIL ANALYSIS REPORT

VISUAL





	VISUAL		methou	iiiiii/base	, 	current	Thistory I	nistoryz
	White Metal	scalar	*Visual	NONE	N	ONE		
	Yellow Metal	scalar	*Visual	NONE	N	ONE		
	Precipitate	scalar	*Visual	NONE		ONE		
1	Silt	scalar	*Visual	NONE		ONE		
	Debris	scalar	*Visual	NONE		ONE		
	Sand/Dirt		*Visual	NONE		ONE		
53		scalar						
0ct11/23	Appearance	scalar	*Visual	NORML		ORML		
0	Odor	scalar	*Visual	NORML		ORML		
	Emulsified Water	scalar	*Visual	>0.2		EG		
	Free Water	scalar	*Visual		N	EG		
	FLUID PROPERT	IES	method	limit/base	e	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	14	<u> </u>	0.9		
	GRAPHS							
	Ferrous Alloys							
	18 16 iron							
	14							
	12-							
	E ¹⁰ 8							
	6							
	4-							
	2-							
	0							
	0ct11/23			0ct11/23				
	00			00				
	Non-ferrous Metal	s						
	10 copper 1							
	8 -							
	o tin							
	6-							
	E dd							
	4							
	2							
	2							
	0		****					
	1/23			0ct11/23				
	Oct1			0ct1				
	🔥 Viscosity @ 100°C				-	- NI		
	¹⁸ T					se Number		
	17- Abnormal				0.0 Base			
	Abnormal 16			(8	8.0-			
	15			Base Number (mg KOH/g)				
	Base Base		*****	(Bw)	6.0			
	Base 14 3 ¹³ Abnormal			nber	4.0			
	12-			e Nur	4.0			
	11-			Bas	2.0			
	10-							
	9				0.0			
	0ct11/23			0ct11/23	0ct11/23			
	Oct			Oct	Oct			
oratory	: WearCheck USA - 5				13	RUSH T	RUCK LEASING - B	
ple No.		Receive		Dec 2023			770 WEST	AMITY ROAL
Number		Diagnos		Dec 2023				BOISE, II
ue Number		Diagnosi		s Davis	`		Contrati MATT	US 8370
t Package	: FLEET (Additional	i ests: Fi	ieiDilution, P	ercent⊢uel)		Contact: MATT	ROKCHARD

Contact/Location: MATT BORCHARDT - IDEBOI

F: (208)639-4859

T: