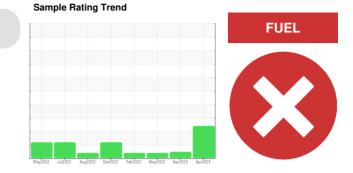


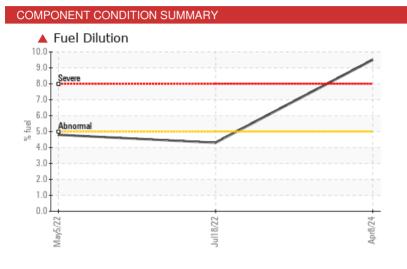
PROBLEM SUMMARY

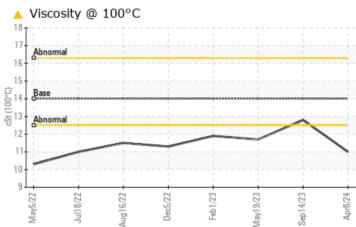


£66

Area

Machine to Machine to **53.157L [COLORADO^443]** Component **Diesel Engine** Fluid MOBIL DELVAC 1300 SUPER15W40 (2 GAL)





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	NORMAL	ATTENTION		
Fuel	%	ASTM D3524	>5	4 9.5	<1.0	<1.0		
Visc @ 100°C	cSt	ASTM D445	14	🔺 11.0	12.8	11.7		

Customer Id: SHEWIC Sample No.: WC0918157 Lab Number: 06151842 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 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

14 Sep 2023 Diag: Wes Davis

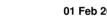
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



19 May 2023 Diag: Angela Borella

VISCOSITY

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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



01 Feb 2023 Diag: Jonathan Hester

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



view report

view report





OIL ANALYSIS REPORT

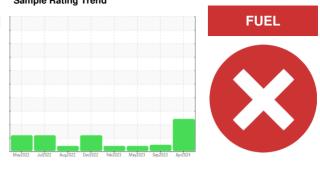
Sample Rating Trend



COLORADO/443 53.157L [COLORADO^443] **Diesel Engine**

Fluid MOBIL DELVAC 1300 SUPER15W40 (2 GAL)

SAMPLE INFORMATION



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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.

Area

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

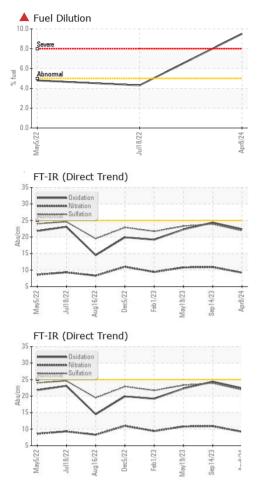
Fluid Condition

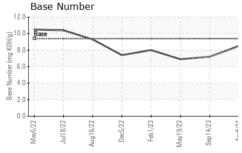
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info		WC0918157 08 Apr 2024 1836 467 Changed SEVERE	WC0823058 14 Sep 2023 1369 0 Changed NORMAL	WC0799056 19 May 2023 1121 0 Not Changd ATTENTION
	١	method WC Method	limit/base	current	history1 NEG	history2 NEG
Water Glycol		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron Chromium	ppm ppm	ASTM D5185m ASTM D5185m		7 <1	22 1	19 <1
Nickel Titanium	ppm ppm	ASTM D5185m ASTM D5185m	>2 >2	0 0	<1 <1	0 <1
Silver Aluminum	ppm ppm	ASTM D5185m ASTM D5185m		0 2	0 2	0 3
Lead Copper Tin	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>40 >330 >15	0 6 0	0 60 <1	0 101 <1
Vanadium Cadmium	ppm ppm ppm	ASTM D5185m ASTM D5185m	>15	0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m	0	38 0	54 0	59 0
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m	0	39 0	28	23 <1
Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	0	488 1630	678 1802	647 1678
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m		788 913	802 983	764 968
Sulfur CONTAMINANTS	ppm	ASTM D5185m	limit/base	2365	3080	3291
Silicon	ppm	method ASTM D5185m	>25	current 4	history1 7	history2 7
Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20	2 2	5	2 3
	%	ASTM D3524 method	>5 limit/base	▲ 9.5	<1.0	<1.0
INFRA-RED Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>3 >20	current 0.1 9.2	history1 0.2 10.9	history2 0.1 10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	23.9	23.3
FLUID DEGRADA	Abs/.1mm	method *ASTM D7414	limit/base	current 22.4	history1 24.4	history2 22.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.5	7.2	6.9



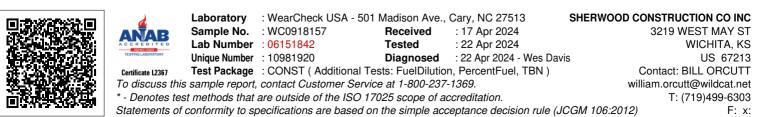
OIL ANALYSIS REPORT





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	IEQ	method	limit/base	current	history1	history2
	IES	method	IIIIII/Dase	current	nistory i	TIIStOryz
Visc @ 100°C	cSt	ASTM D445	14	A 11.0	12.8	11.7
GRAPHS						

Ferrous Alloys 25 20 n Feb1/23 Sep 14/23 Jul18/22 ug16/22 Dec5/22 May19/23 Apr8/24 Mav5/73 Non-ferrous Metals 160 140 lead 120 100 Md 80 60 40 20 0 May19/23 or8/74 Mav5/77 /ug16/22 Jec5/77 eb 1/23 Sep 14/23 Viscosity @ 100°C Base Number 18 12.0 17 10. 16 (mg KOH/g) 15 8 (cSt (100°C) 6.0 Der 4.0 ase 2 (10 0.0 9 Apr8/24 -Dec5/22 Feb1/23 Sep 14/23 Aug16/22 Feb1/23 Sep14/23 Mav5/77 u118/77 Aug16/22 Mav19/23 Mav5/22 Dec5/22 May19/23



Submitted By: JAMES MOORE

Page 4 of 4

Apr8/24