

OIL ANALYSIS REPORT

Sample Rating Trend



Area TRUCK Machine Id 20470

Gasoline Engine

Fluid MOBIL DELVAC 1300 SUPER15W40 (8 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0919799		
Sample Date		Client Info		11 Apr 2024		
Machine Age	mls	Client Info		200522		
Oil Age	mls	Client Info		10000		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	۷	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	86		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>40	4		
Lead	ppm	ASTM D5185m	>50	0		
Copper	ppm	ASTM D5185m	>155	<1		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 0	current 5	history1	history2
	ppm ppm					
Boron		ASTM D5185m	0	5		
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0	5 0		
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0	5 0 56		
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	5 0 56 1		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	5 0 56 1 790		
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	5 0 56 1 790 1110	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	5 0 56 1 790 1110 874	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	5 0 56 1 790 1110 874 1065	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0	5 0 56 1 790 1110 874 1065 3387		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 0 56 1 790 1110 874 1065 3387 current 6 24	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 Imit/base >30	5 0 56 1 790 1110 874 1065 3387 current 6	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 56 1 790 1110 874 1065 3387 current 6 24	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	5 0 56 1 790 1110 874 1065 3387 current 6 24 2 2 2 current 0.1	 history1 	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	5 0 56 1 790 1110 874 1065 3387 current 6 24 2 2 2 current	 history1 history1	 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm	ASTM D5185m ASTM D5185m	0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	5 0 56 1 790 1110 874 1065 3387 current 6 24 2 2 2 current 0.1	 history1 history1 	 history2 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	5 0 56 1 790 1110 874 1065 3387 <i>current</i> 6 24 2 2 <i>current</i> 0.1 13.0	 history1 history1 history1	 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 56 1 790 1110 874 1065 3387 <u>current</u> 6 24 2 2 <u>current</u> 0.1 13.0 25.7	 history1 history1 history1	 history2 history2 history2



OIL ANALYSIS REPORT

FT-IR (Direct Trend)	VISUAL		method	limit/base	current	history1	history2
35 - Oxidation	White Meta	al scalar	*Visual	NONE	NONE		
30 - Sulfation	Yellow Met		*Visual	NONE	NONE		
B 25 - Abnormal	Precipitate		*Visual	NONE	NONE		
Ž 20	Silt	scalar	*Visual	NONE	NONE		
15	Debris	scalar	*Visual	NONE	NONE		
10	Sand/Dirt	scalar	*Visual	NONE	NONE		
			*Visual	NORML	NORML		
Apr11/24	Appearanc Odor	scalar	*Visual	NORML	NORML		
	Emulsified		*Visual	>0.2	NEG		
Base Number	Free Water		*Visual		NEG		
		ROPERTIES	method	limit/base	current	history1	history2
0.8 0 4 July 20.4 0 4 July 20.4 0	Visc @ 100		ASTM D445		13.0		
ua qui 4.0	GRAPHS	6					
2.0-	Ferrous A						
0.0	90 T						
	80 - iro	n romium					
Apr11/24	70						
	60						
Viscosity @ 100°C	50 - 40 -						
17	30 -						
Abnormal 16	20-						
0 0 15 0 14 8 8 8 8	10						
	74			/24			
13 Abnomal	Apr11/24			Apr11/24			
12		ous Metals					
	10 T						
Apr1 1/24	co	pper d					
	8 -						
	6						
	Ш.d.						
	4						
	2 -						
	1/2 44 1/2		*******	24			
	(pr11,			Apr11/			
	Viscosity	@ 100°C		4			
	¹⁸ T			10.0	Base Number		
	17-			10.0	Base		
	Abnormal			(₽ 8.0			
				ROH ROH			
	0015 8000 7314 Base			6.0- 6.0- 6.0- 6.0- 8 gase Number (mg KOH/0)			
	tg 14 + d		*****	4.0-			
	13 - Abnormal			B 2 0 -			
	12 -			2.0			
	11				4		+
	Apr11/24			Apr11/24	Apr11/24		Apr11/24
	Ap			Ap	AF		Ap
Certificate L2367 Te To discuss this sa	boratory : WearCheck mple No. : WC0919799 b Number : 06157289 ique Number : 10992712 st Package : CONST (Ac mple report, contact Custo ethods that are outside of	Teste Diagr Iditional Tests: TB mer Service at 1-8	ived : 23 ed : 24 nosed : 24 N) 800-237-1369	3 Apr 2024 1 Apr 2024 9 Apr 2024 - We 9.	es Davis		O STREET SW CANTON, OH US 44706 : David Pfeiffer
	formity to specifications ar				ule (JCGM 106	:2012)	F:
Report Id: BCBR030 [WUSCAR] 06157289 (Genera							: David Pfeiffer

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Submitted By: David Pfeiffer

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