

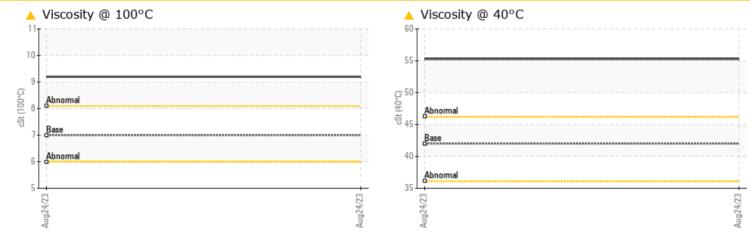
Sample Rating Trend VISCOSITY



Machine Id 70007 T2

Component Unknown Component Fluid MOBIL DELVAC 1310 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as MOBIL DELVAC 1310, however, a fluid match indicates that this fluid is SAE 5W20 Diesel Engine Oil. Please confirm the sample type and grade on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	
Visc @ 40°C	cSt	ASTM D7279(m)	42	6 55.3	
Visc @ 100°C	cSt	ASTM D7279(m)	7.0	9.2	

Customer Id: VMEGUE Sample No.: WC0809056 Lab Number: 02578469 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED A	CTIONS			
Action	Status	Date	Done By	Description
Alert			?	The fluid was specified as MOBIL DELVAC 1310, however, a fluid match indicates that this fluid is SAE 5W20 Diesel Engine Oil. Please confirm the sample type and grade on your next sample.
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Check Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 70007 T2 Component **Unknown Component** Fluic MOBIL DELVAC 1310 (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as MOBIL DELVAC 1310, however, a fluid match indicates that this fluid is SAE 5W20 Diesel Engine Oil. Please confirm the sample type and grade on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

Viscosity of sample indicates oil is within SAE 5W20 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The condition of the sample is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0809056		
Sample Date		Client Info		24 Aug 2023		
Machine Age	hrs	Client Info		1		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		3		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		<1		
Lead	ppm	ASTM D5185(m)		0		
Copper	ppm	ASTM D5185(m)		<1		
Tin	ppm	ASTM D5185(m)		0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		2		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		590		
Calcium	ppm	ASTM D5185(m)		2821		
Phosphorus	ppm	ASTM D5185(m)		1098		
Zinc	ppm	ASTM D5185(m)		1176		
Sulfur	ppm	ASTM D5185(m)		3593		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185(m)		11		
	ppm	ASTM D5185(m) ASTM D5185(m)				
Sodium Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>20	<1 0		
FLUID CLEANLIN		method	limit/base		history1	history
	1200			current	history1	history2
Particles >4µm		ASTM D7647	>5000	2276		
Particles >6µm		ASTM D7647	>1300	222		
Particles >14µm		ASTM D7647	>160	13		
Particles >21µm		ASTM D7647	>40	4		
Particles >38µm		ASTM D7647	>10	2		
Particles >71µm		ASTM D7647		2		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
		ASTM D974*		2.15		

Report Id: VMEGUE [WCAMIS] 02578469 (Generated: 08/28/2023 12:11:02) Rev: 1

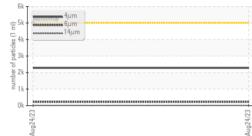
Contact/Location: Larry Whale - VMEGUE

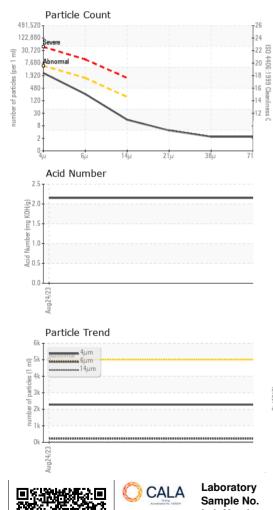


OIL ANALYSIS REPORT

VISUAL







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
ellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
ppearance	scalar	Visual*	NORML	NORML		
Ddor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*		NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERTI	IES	method	limit/base	current	history1	history2
/isc @ 40°C	cSt	ASTM D7279(m)	42	55.3		
/isc @ 100°C	cSt	ASTM D7279(m)	7.0	9.2		
/iscosity Index (VI)	Scale	ASTM D2270*	125	147		
SAMPLE IMAGES		method	limit/base	current	history1	history2
		methou	IIIIII/Dase	Current	Thistory I	TIStory2
Color					no image	no image
Bottom					no image	no image
Bottom GRAPHS Ferrous Alloys			491.520	ł.	-	1 ²¹
GRAPHS Ferrous Alloys	5		122,880 30,720 (m l a) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Severe	-	no image 26 -24 -22 -20 -18 -14 -14 -12 -10 -8
GRAPHS Ferrous Alloys	5		122,880 30,720 T,680 20,720 T,680 T,920 T,	Abnormal	-	-26 -24 -22 -20 -18 -16 -14 -14 -12 -10
GRAPHS Ferrous Alloys	5		122,880 30,720 (in the first sector) (in the	Acid Number		26 -24 -22 -20 -18 -16 -14 -12 -10
GRAPHS Ferrous Alloys	5		122,880 30,720 (in the first sector) (in the	Acid Number		26 -24 -22 -20 -18 -16 -14 -12 -10
GRAPHS Ferrous Alloys	5		122,880 30,720 (in the first sector) (in the	Acid Number		26 -24 -22 -20 -18 -16 -14 -12 -10
GRAPHS Ferrous Alloys	;		122,880 30,720 (in the first sector) (in the	Acid Number		26 -24 -22 -20 -18 -16 -14 -12 -10
GRAPHS Ferrous Alloys	3		122,880 30,720 (in 1,920 (in 1,920 (in 1,920 (in 1,920) (in 1,920)	Severe		26 -24 -22 -20 -18 -14 -14 -14 -12
GRAPHS Ferrous Alloys	5		122,880 30,720 (in the first sector) (in the	Acid Number		26 -24 -22 -20 -18 -16 -14 -12 -10

limit/base

current

method

historv1

history2

GUELPH, ON CA N1H 1B6 Contact: Larry Whale Iwhale@hitachitruck.com T: (519)826-5586 F: (519)826-5545

ISO 17025:2017 Accredited Laboratory

Lab Number

Unique Number Test Package