

OIL ANALYSIS REPORT

NORMAL

Sample Rating Trend



Area OKLAHOMA/102/EG - EXCAVATOR 20.520L [OKLAHOMA^102^EG - EXCAVATOR] Component Right Final Drive Fluid MOBIL MOBILTRANS HD 50 (2 GAL)

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.

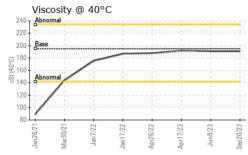
Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0834143	WC0807966	WC0778312
Sample Date		Client Info		20 Sep 2023	08 Jun 2023	17 Apr 2023
Machine Age	hrs	Client Info		4068	3721	12300
Oil Age	hrs	Client Info		1711	500	500
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	295	233	220
Chromium	ppm	ASTM D5185m	>10	1	1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>15	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	8	8	5
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>75	1	<1	<1
Tin	ppm	ASTM D5185m	>8	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	8	8
DOIOII	ppm	AGTIM DJTOJII		10	0	0
Barium	ppm	ASTM D5185m		0	0	0
				-		
Barium	ppm	ASTM D5185m		0 3 2	0	0
Barium Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m		0 3	0 3	0 3 2 25
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 3 2	0 3 2	0 3 2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 3 2 30 2979 1041	0 3 2 29 3163 1045	0 3 2 25
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 3 2 30 2979 1041 1289	0 3 2 29 3163 1045 1321	0 3 2 25 3126 1042 1270
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 3 2 30 2979 1041	0 3 2 29 3163 1045	0 3 2 25 3126 1042
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	limit/base	0 3 2 30 2979 1041 1289	0 3 2 29 3163 1045 1321	0 3 2 25 3126 1042 1270
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >400	0 3 2 30 2979 1041 1289 8505	0 3 2 29 3163 1045 1321 9788	0 3 2 25 3126 1042 1270 8391
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 3 2 30 2979 1041 1289 8505 current	0 3 2 29 3163 1045 1321 9788 history1	0 3 2 25 3126 1042 1270 8391 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>400	0 3 2 30 2979 1041 1289 8505 current 35	0 3 2 29 3163 1045 1321 9788 history1 33	0 3 2 25 3126 1042 1270 8391 history2 31
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>400	0 3 2 30 2979 1041 1289 8505 current 35 2	0 3 2 29 3163 1045 1321 9788 history1 33 2	0 3 2 25 3126 1042 1270 8391 history2 31 0
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>400 >20	0 3 2 30 2979 1041 1289 8505 current 35 2 2 2 2 2 current NONE	0 3 2 29 3163 1045 1321 9788 history1 33 2 2 <1	0 3 2 25 3126 1042 1270 8391 history2 31 0 3 3 history2 MODER
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual	>400 >20 limit/base NONE NONE	0 3 2 30 2979 1041 1289 8505 <u>current</u> 35 2 2 2 2 <u>current</u> NONE NONE	0 3 2 29 3163 1045 1321 9788 history1 33 2 <1 history1 NONE NONE	0 3 2 25 3126 1042 1270 8391 history2 31 0 3 3 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual	>400 >20 limit/base NONE	0 3 2 30 2979 1041 1289 8505 current 35 2 2 2 2 2 current NONE	0 3 2 29 3163 1045 1321 9788 history1 33 2 <1 history1 NONE	0 3 2 25 3126 1042 1270 8391 history2 31 0 3 3 history2 MODER
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yuisual *Visual *Visual	>400 >20 limit/base NONE NONE	0 3 2 30 2979 1041 1289 8505 <u>current</u> 35 2 2 2 2 <u>current</u> NONE NONE NONE NONE NONE	0 3 2 29 3163 1045 1321 9788 history1 33 2 <1 history1 NONE NONE	0 3 2 25 3126 1042 1270 8391 history2 31 0 3 3 history2 MODER NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	>400 >20 limit/base NONE NONE NONE NONE NONE	0 3 2 30 2979 1041 1289 8505 <i>current</i> 35 2 2 2 <i>current</i> NONE NONE NONE NONE NONE NONE	0 3 2 29 3163 1045 1321 9788 <u>history1</u> 33 2 <1 <u>history1</u> NONE NONE NONE NONE	0 3 2 25 3126 1042 1270 8391 history2 31 0 3 3 history2 MODER NONE NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yuisual *Visual *Visual	>400 >20 limit/base NONE NONE NONE NONE	0 3 2 30 2979 1041 1289 8505 <u>current</u> 35 2 2 2 2 <u>current</u> NONE NONE NONE NONE NONE	0 3 2 29 3163 1045 1321 9788 history1 33 2 <1 NONE NONE NONE NONE NONE NONE NONE NON	0 3 2 25 3126 1042 1270 8391 history2 31 0 3 3 history2 MODER NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>400 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE NON	0 3 2 30 2979 1041 1289 8505 <i>current</i> 35 2 2 2 2 <i>current</i> NONE NONE NONE NONE NONE NONE NONE NON	0 3 2 29 3163 1045 1321 9788 history1 33 2 <1 NONE NONE NONE NONE NONE NONE NONE	0 3 2 25 3126 1042 1270 8391 history2 31 0 3 3 history2 MODER NONE NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>400 >20 Iimit/base NONE NONE NONE NONE NONE	0 3 2 30 2979 1041 1289 8505 current 35 2 2 2 2 current NONE NONE NONE NONE NONE NONE NONE NON	0 3 2 29 3163 1045 1321 9788 history1 33 2 <1 NONE NONE NONE NONE NONE NONE NONE NON	0 3 2 25 3126 1042 1270 8391 history2 31 0 3 3 history2 MODER NONE NONE NONE NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>400 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE NON	0 3 2 30 2979 1041 1289 8505 current 35 2 2 2 2 current NONE NONE NONE NONE NONE NONE NONE NON	0 3 2 29 3163 1045 1321 9788 history1 33 2 <1 NONE NONE NONE NONE NONE NONE NONE NON	0 3 2 25 3126 1042 1270 8391 history2 31 0 33 history2 31 0 3 3 NONE NONE NONE NONE NONE NONE NONE
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>400 >20 Imit/base NONE NONE NONE NONE NONE NONE NONE NORML NORML	0 3 2 30 2979 1041 1289 8505 current 35 2 2 2 2 current NONE NONE NONE NONE NONE NONE NONE NON	0 3 2 29 3163 1045 1321 9788 history1 33 2 <1 NONE NONE NONE NONE NONE NONE NONE NON	0 3 2 25 3126 1042 1270 8391 history2 31 0 33 history2 MODER NONE NONE NONE NONE NONE NONE NONE NO



OIL ANALYSIS REPORT



	FLUID PROPER	TIES	method	limit/base	current	history1	history2			
	Visc @ 40°C	cSt	ASTM D445	195	191	191	192			
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2			
	Color				no image	no image	no image			
Jun8/23 Sep20/23	Bottom				no image	no image	no image			
	GRAPHS									
	Ferrous Alloys									
	300 250			/						
	₽ ²⁰⁰									
	100									
		Jan 17/22 Apr26/22	Apr17/23 Jun8/23	Sep20/23						
	Non-ferrous Meta	ls								
	8 7									
	6~ 떤 5~									
	4									
	2	\sim								
	Jan 26/21	Jan 17/22	Apr17/23	Sep 20/23						
	ন্ট্র্র্ Viscosity @ 40°C	Ap	Ap	Sep						
	240 Abnormal	1	1 1	1						
	220 - Base									
	180									
	(2,00 (2,00) 160 Abnormal									
	140									
	120									
	80									
	Jan26,21 Mar30,21 Jan7/22	Jan 17/22 Apr26/22	Apr17/23 . Jun8/23 .	Sep20/23						
Laboratory	: WearCheck USA - 50				SHERW	OOD CONSTRU				
Sample No. Lab Number	: WC0834143 : 05968096 : 10674647	Recei Teste	d : 04	3 Oct 2023 4 Oct 2023	Delektor	3219	WEST MAY ST WICHITA, KS			



Lab Number : 05968096 Unique Number : 10674647 Diagnosed : 05 Oct 2023 - Don Baldridge Test Package : CONST Contact: DOUG KING Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. doug.king@sherwood.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: SHEWIC [WUSCAR] 05968096 (Generated: 05/09/2024 17:41:34) Rev: 1

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