

OIL ANALYSIS REPORT

Sample Rating Trend









OKLAHOMA/3/EG - LOADER 48.85L [OKLAHOMA^3^EG - LOADER]

Front Differential

Fluid MOBIL SHC 629 (--- 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.

		s2016 Apr2017 0s27017 Jul2018 0sc2019 Jur2020 0sc2020 0sc2021 May/20						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0914400	WC0769651	WC0738509		
Sample Date		Client Info		12 May 2024	09 Jan 2023	30 Sep 2022		
Machine Age	hrs	Client Info		32558	29226	28498		
Oil Age	hrs	Client Info		27532	27532	966		
Oil Changed		Client Info		N/A	N/A	Not Changd		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2		
Water		WC Method	>.2	NEG	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2		
ron	ppm	ASTM D5185m	>500	63	47	35		
Chromium	ppm	ASTM D5185m	>3	<1	<1	0		
Nickel	ppm	ASTM D5185m	>3	<1	0	0		
Titanium	ppm	ASTM D5185m	>2	<1	0	<1		
Silver	ppm	ASTM D5185m	>2	<1	0	0		
Aluminum	ppm	ASTM D5185m	>30	2	0	1		
_ead	ppm	ASTM D5185m	>13	<1	0	0		
Copper	ppm	ASTM D5185m	>103	19	13	9		
Tin	ppm	ASTM D5185m	>5	1	0	0		
Antimony	ppm	ASTM D5185m						
/anadium	ppm	ASTM D5185m		<1	0	<1		
Cadmium	ppm	ASTM D5185m		<1	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron								
	ppm	ASTM D5185m		1	2	0		
	ppm ppm	ASTM D5185m ASTM D5185m		1 0	2	0		
Barium	ppm							
Barium Molybdenum	ppm ppm	ASTM D5185m		0	0	0		
Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m		0 <1	0 <1	0 <1		
Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 1	0 <1 <1	0 <1		
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 1 2	0 <1 <1 2	0 <1 1 0		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 1 2 159	0 <1 <1 2 171 451	0 <1 1 0 169 474		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 1 2 159 482	0 <1 <1 2 171	0 <1 1 0		
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	limit/base	0 <1 1 2 159 482 76	0 <1 <1 2 171 451 81	0 <1 1 0 169 474 86 294		
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 <1 1 2 159 482 76 349	0 <1 <1 2 171 451 81 201	0 <1 1 0 169 474 86 294		
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 ASTM D5185m		0 <1 1 2 159 482 76 349 current	0 <1 <1 2 171 451 81 201 history1	0 <1 1 0 169 474 86 294 history2		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>100	0 <1 1 2 159 482 76 349 current 21	0 <1 <1 2 171 451 81 201 history1 19	0 <1 1 0 169 474 86 294 history2 21		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>100	0 <1 1 1 2 159 482 76 349 current 21 0	0 <1 <1 2 171 451 81 201 history1 19 <1	0 <1 1 0 169 474 86 294 history2 21 0 0		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>100 >20	0 <1 1 1 2 159 482 76 349 current 21 0 2	0 <1 <1 2 171 451 81 201 history1 19 <1 0	0 <1 1 0 169 474 86 294 history2 21 0 0		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 limit/base	0 <1 1 1 2 159 482 76 349 current 21 0 2 current	0 <1 <1 2 171 451 81 201 history1 19 <1 0 history1	0 <1 1 0 169 474 86 294 history2 21 0 0 history2		
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 ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 limit/base NONE	0 <1 1 1 2 159 482 76 349 current 21 0 2 current NONE	0 <1 <1 2 171 451 81 201 history1 19 <1 0 history1 MODER	0 <1 1 0 169 474 86 294 history2 21 0 0 MODER		
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 method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>100 >20 limit/base NONE NONE	0 <1 1 1 2 159 482 76 349 current 21 0 2 current NONE NONE	0 <1 <1 2 171 451 81 201 history1 19 <1 0 history1 MODER NONE	0 <1 1 0 169 474 86 294 history2 21 0 0 history2 MODER NONE		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m **Visual **Visual	>100 >20 limit/base NONE NONE NONE	0 <1 1 1 2 159 482 76 349 current 21 0 2 current NONE NONE NONE	0 <1 <1 <2	0 <1 1 0 169 474 86 294 history2 21 0 0 MODER NONE NONE		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>100 >20 limit/base NONE NONE NONE NONE	0 <1 1 1 2 159 482 76 349 current 21 0 2 current NONE NONE NONE NONE	0 <1 <1 <2	0 <1 1 0 169 474 86 294 history2 21 0 0 MODER NONE NONE NONE		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>100 >20 limit/base NONE NONE NONE NONE NONE NONE	0 <1 1 1 2 159 482 76 349 current 21 0 2 current NONE NONE NONE NONE LIGHT	0 <1 <1 <2 <1 <2 <1 <2 <1 <2 <1 <2 <1 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <4 <1 <1 <4 <1 <4 <1 <4 <1 <4 <1 <1 <4 <1 <1 <4 <1 <1 <1 <4 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	0 <1 1 0 169 474 86 294 history2 21 0 0 MODER 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	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>100 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NONE	0 <1 1 1 2 159 482 76 349 current 21 0 2 current NONE NONE NONE NONE LIGHT NONE	0 <1 <1 <2 <1 <2 <1 <2 <1 <1 <2 <1 <1 <2 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	0 <1 1 0 169 474 86 294 history2 21 0 0 MODER NONE NONE NONE NONE NONE		

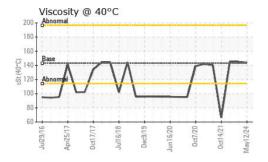
Ibmitted By: GARRENE ADAMS

NEG

scalar *Visual

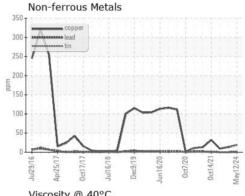


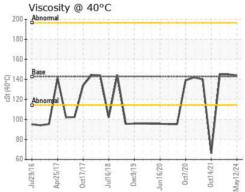
OIL ANALYSIS REPORT



Visc @ 40°C	St ASTM D44	4 40 0			
		142.8	144	145	145
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

Ferrous Alloys 800 700 500 E 400 300 200 100 Jul29/16









Laboratory Sample No. : WC0914400 Lab Number : 06185325 Unique Number : 11036651

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 May 2024

Tested : 22 May 2024 Diagnosed : 22 May 2024 - Don Baldridge

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS US 67213

Contact: DOUG KING

Test Package : CONST Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

doug.king@sherwood.net T: (316)617-3161

* - 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)

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