

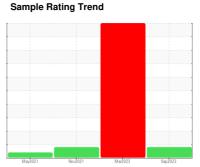




KANSAS/44 53.155L [KANSAS^44]

Left Final Drive

MOBIL MOBILUBE HD PLUS 75W90 (0 GAL)





DIAGNOSIS

Recommendation

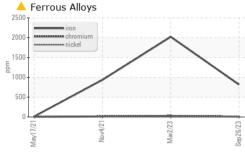
Contamination

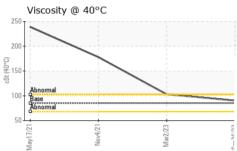
Fluid Condition

DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		WC0833838	WC0779833	WC0630280
No corrective action is recommended at this time.	Sample Date		Client Info		26 Sep 2023	02 Mar 2023	04 Nov 2021
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		1846	1367	460
▲ Wear	Oil Age	hrs	Client Info		460	814	356
Gear wear is indicated.	Oil Changed		Client Info		N/A	N/A	Changed
Contamination	Sample Status				ABNORMAL	SEVERE	ABNORMAL
There is no indication of any contamination in the oil.	CONTAMINATIO	N	method	limit/base		history1	history2
Fluid Condition	Water		WC Method	>0.2	NEG	NEG	NEG
The condition of the oil is acceptable for the time in service.	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>800	<u> </u>	2020	△ 935
	Chromium	ppm	ASTM D5185m	>10	10	• 30	16
	Nickel	ppm	ASTM D5185m	>5	0	2	2
	Titanium	ppm	ASTM D5185m	>15	<1	1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>75	6	2 2	12
	Lead	ppm	ASTM D5185m	>10	0	<1	<1
	Copper	ppm	ASTM D5185m	>75	5	36	27
	Tin	ppm		>8	0	0	0
	Antimony	ppm	ASTM D5185m	>50			0
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	Cadmium		ASTM D5185m		0	0	<1
	Caumum	ppiii					
	ADDITIVES	ppm	method	limit/base	current	history1	history2
				limit/base	current 520		history2
	ADDITIVES	ppm	method ASTM D5185m	limit/base	520	history1 147	165
	ADDITIVES Boron Barium	ppm	method ASTM D5185m ASTM D5185m	limit/base	520 0	history1	165 25
	ADDITIVES Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	520 0 <1	history1 147 0 1	165 25 <1
	ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	520 0 <1 6	history1 147 0 1 15	165 25 <1
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	520 0 <1 6 2	history1 147 0 1 15 6	165 25 <1 11 3
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	520 0 <1 6 2	history1 147 0 1 15 6 39	165 25 <1 11 3
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	520 0 <1 6 2 9 1566	history1 147 0 1 15 6 39 1685	165 25 <1 11 3 30 1249
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	520 0 <1 6 2 9 1566	history1 147 0 1 15 6 39 1685 37	165 25 <1 11 3 30 1249 78
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m		520 0 <1 6 2 9 1566 4 20477	history1 147 0 1 15 6 39 1685 37 25056	165 25 <1 11 3 30 1249 78 21607
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	520 0 <1 6 2 9 1566 4 20477 current	history1 147 0 1 15 6 39 1685 37 25056 history1	165 25 <1 11 3 30 1249 78 21607 history2
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	520 0 <1 6 2 9 1566 4 20477 current 28	history1 147 0 1 15 6 39 1685 37 25056 history1 ▲ 117	165 25 <1 11 3 30 1249 78 21607 history2 42
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm	method ASTM D5185m	limit/base >400	520 0 <1 6 2 9 1566 4 20477 current 28 3	history1 147 0 1 15 6 39 1685 37 25056 history1 ▲ 117 14	165 25 <1 11 3 30 1249 78 21607 history2 42 20
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m		520 0 <1 6 2 9 1566 4 20477 current 28 3 4	history1 147 0 1 15 6 39 1685 37 25056 history1 ▲ 117 14 16	165 25 <1 11 3 30 1249 78 21607 history2 42 20 10
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method	limit/base >400 >20 limit/base	520 0 <1 6 2 9 1566 4 20477 current 28 3 4	history1 147 0 1 15 6 39 1685 37 25056 history1 ▲ 117 14 16 history1	165 25 <1 11 3 30 1249 78 21607 history2 42 20 10 history2
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m method *Visual	limit/base >400 >20 limit/base NONE	520 0 <1 6 2 9 1566 4 20477 current 28 3 4 current NONE	history1 147 0 1 15 6 39 1685 37 25056 history1 ▲ 117 14 16 history1 ▲ MODER	165 25 <1 11 3 30 1249 78 21607 history2 42 20 10 history2 LIGHT
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm	method ASTM D5185m method *Visual *Visual	limit/base >400 >20 limit/base NONE NONE	520 0 <1 6 2 9 1566 4 20477 current 28 3 4 current NONE NONE	history1 147 0 1 15 6 39 1685 37 25056 history1 ▲ 117 14 16 history1 ▲ MODER NONE	165 25 <1 11 3 30 1249 78 21607 history2 42 20 10 history2 LIGHT NONE
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm	method ASTM D5185m method *Visual *Visual	limit/base >400 >20 limit/base NONE NONE NONE	520 0 <1 6 2 9 1566 4 20477	history1 147 0 1 15 6 39 1685 37 25056 history1 ▲ 117 14 16 history1 ▲ MODER NONE NONE	165 25 <1 11 3 30 1249 78 21607 history2 42 20 10 history2 LIGHT NONE NONE
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m method *Visual *Visual *Visual	limit/base >400 >20 limit/base NONE NONE NONE NONE	520 0 <1 6 2 9 1566 4 20477 current 28 3 4 current NONE NONE NONE MODER	history1 147 0 1 15 6 39 1685 37 25056 history1 ▲ 117 14 16 history1 ▲ MODER NONE NONE NONE	165 25 <1 11 3 30 1249 78 21607 history2 42 20 10 history2 LIGHT NONE NONE NONE
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm	method ASTM D5185m method *Visual *Visual	limit/base >400 >20 limit/base NONE NONE NONE	520 0 <1 6 2 9 1566 4 20477	history1 147 0 1 15 6 39 1685 37 25056 history1 ▲ 117 14 16 history1 ▲ MODER NONE NONE	165 25 <1 11 3 30 1249 78 21607 history2 42 20 10 history2 LIGHT NONE NONE
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m method *Visual *Visual *Visual	limit/base >400 >20 limit/base NONE NONE NONE NONE	520 0 <1 6 2 9 1566 4 20477 current 28 3 4 current NONE NONE NONE MODER	history1 147 0 1 15 6 39 1685 37 25056 history1 ▲ 117 14 16 history1 ▲ MODER NONE NONE NONE	165 25 <1 11 3 30 1249 78 21607 history2 42 20 10 history2 LIGHT NONE NONE NONE
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >400 >20 limit/base NONE NONE NONE NONE NONE NONE	520 0 <1 6 2 9 1566 4 20477 current 28 3 4 current NONE NONE NONE NONE NONE NONE NONE NON	history1 147 0 1 15 6 39 1685 37 25056 history1 ▲ 117 14 16 history1 ▲ MODER NONE NONE NONE NONE NONE	165 25 <1 11 3 30 1249 78 21607 history2 42 20 10 history2 LIGHT NONE NONE NONE NONE
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm	method ASTM D5185m METHOD *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >400 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	520 0 <1 6 2 9 1566 4 20477	history1 147 0 1 15 6 39 1685 37 25056 history1 ▲ 117 14 16 history1 ▲ MODER NONE NONE NONE NONE NONE NONE	165 25 <1 11 3 30 1249 78 21607 history2 42 20 10 history2 LIGHT NONE NONE NONE NONE NONE
	ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm	method ASTM D5185m method ASTM D5185m *Visual *Visual	limit/base >400 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	520 0 <1 6 2 9 1566 4 20477 current 28 3 4 current NONE NONE NONE NONE NONE NONE NONE NON	history1 147 0 1 15 6 39 1685 37 25056 history1 ▲ 117 14 16 history1 ▲ MODER NONE NORML NORML 0.2%	165 25 <1 11 3 30 1249 78 21607 history2 42 20 10 history2 LIGHT NONE NONE NONE NONE NONE NONE NONE NON



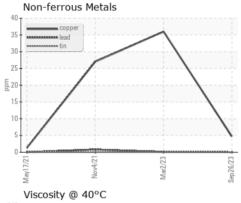
OIL ANALYSIS REPORT

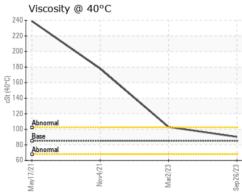




FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	85	90.3	103	178
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						

Ferrous Alloys 2200 2000 1800 1600 1400 1200 1000 800 600 400 200







Laboratory Sample No.

Lab Number : 05968087 Unique Number : 10674638 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0833838 Received : 03 Oct 2023 : 04 Oct 2023

Tested Diagnosed : 05 Oct 2023 - Jonathan Hester

SHERWOOD CONSTRUCTION CO INC

3219 WEST MAY ST WICHITA, KS US 67213

Contact: DOUG KING Doug.King@sherwood.net T:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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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