

OIL ANALYSIS REPORT

Sample Rating Trend





MINING Machine Id ME-01 JOHN DEERE 824K 1DW824KXCJF692826 Component Rear Differential Fluid

JOHN DEERE HY-GARD HYD/TRANS (--- 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.

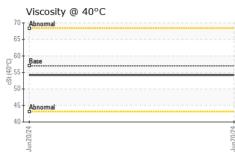
Fluid Condition

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		WC0917363		
Sample Date		Client Info		20 Jun 2024		
Machine Age	hrs	Client Info		16188		
Oil Age	hrs	Client Info		16188		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	1	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>1501	25		
Chromium	ppm	ASTM D5185m	>11	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>21	2		
Lead	ppm	ASTM D5185m	>51	4		
Copper	ppm	ASTM D5185m	>101	5		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	<1		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	0	<1		
Manganese	ppm	ASTM D5185m		0		
			145	100		
Magnesium	ppm	ASTM D5185m	140	100		
Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	3570	3415		
•						
Calcium	ppm	ASTM D5185m	3570	3415		
Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m	3570 1290	3415 1039		
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	3570 1290	3415 1039 1224		
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	3570 1290 1640 limit/base	3415 1039 1224 3347		
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	3570 1290 1640 limit/base >31	3415 1039 1224 3347 current		
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	3570 1290 1640 limit/base >31 >51	3415 1039 1224 3347 current 2		
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	3570 1290 1640 limit/base >31 >51	3415 1039 1224 3347 current 2 <1		
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	3570 1290 1640 limit/base >31 >51 >20	3415 1039 1224 3347 current 2 <1 2	 history1 	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	3570 1290 1640 limit/base >31 >51 >20 limit/base	3415 1039 1224 3347 current 2 <1 2 current	 history1 history1	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XBTM D5185m	3570 1290 1640 limit/base >31 >51 >20 limit/base NONE	3415 1039 1224 3347 current 2 <1 2 current NONE	 history1 history1 	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XSTM D5185m ASTM D5185m XSTM D5185m	3570 1290 1640 imit/base >31 >51 >20 imit/base NONE NONE	3415 1039 1224 3347 current 2 <1 2 current NONE NONE	 history1 history1 	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	3570 1290 1640 imit/base >31 >51 >20 imit/base NONE NONE NONE NONE	3415 1039 1224 3347 current 2 <1 2 current NONE NONE NONE	 history1 history1 	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	3570 1290 1640 limit/base >31 >51 >20 limit/base NONE NONE NONE NONE NONE	3415 1039 1224 3347 current 2 <1 2 current NONE NONE NONE NONE	 history1 history1 history1 <	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	3570 1290 1640 limit/base >31 >51 >20 limit/base NONE NONE NONE NONE NONE NONE	3415 1039 1224 3347 current 2 <1 2 current NONE NONE NONE NONE NONE	 history1 history1 	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	3570 1290 1640 1640 1640 1640 1000 331 >51 >20 100	3415 1039 1224 3347 current 2 <1 2 current NONE NONE NONE NONE NONE NONE NONE	 history1 history1 	 history2 history2 history2
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 scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	3570 1290 1640 31 31 >51 >20 1mit/base NONE NONE NONE NONE NONE NONE NONE NON	3415 1039 1224 3347 current 2 <1 2 current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	3570 1290 1640 31 31 351 320 1imit/base 320 1imit/base NONE NONE NONE NONE NONE NONE NONE NON	3415 1039 1224 3347 current 2 <1 2 current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 	 history2 history2 -



OIL ANALYSIS REPORT



	FLUID PROPERT	IES me	thod I	limit/base	current	history1	history2
	Visc @ 40°C	cSt ASTN	1 D445 57	7.0	54.2		
	SAMPLE IMAGES	s me	thod I	limit/base	current	history1	history2
Jun20/24	Color				no image	no image	no image
	Bottom				no image	no image	no image
	GRAPHS						
	Ferrous Alloys	3		Jun2024 🕂 - 着 🕴			
umber ckage report,	: WearCheck USA - 501 : WC0917363 : 06220114 : 11098311 : CONST contact Customer Servit	Received Tested Diagnosed ce at 1-800-23	., Cary, N : 25 Ju : 26 Ju : 26 Ju 7-1369.	C 27513 in 2024 in 2024 n 2024 - W	es Davis	6725 CHICKAS	A - ROFF - 03 AW TURNPIK ROFF, O IS 74865-015 act: Jim Bonsa Deoviacorp.col (520/421-525

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)

Certificate L2367

T: (580)421-5350

F: