



WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
SMARTROC EP-D60 TMG18SED0241
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (4 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

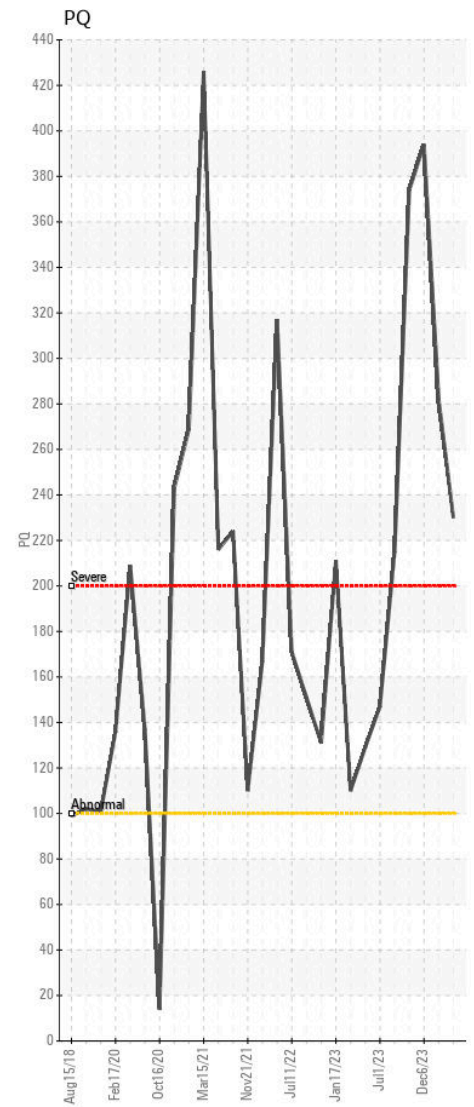
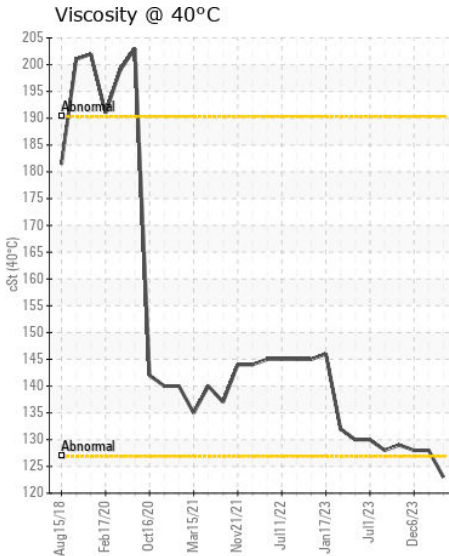
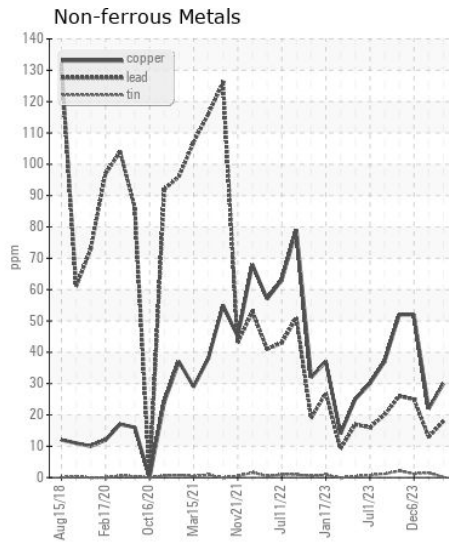
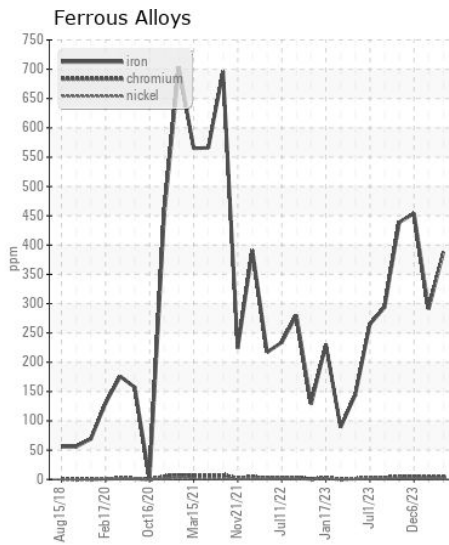
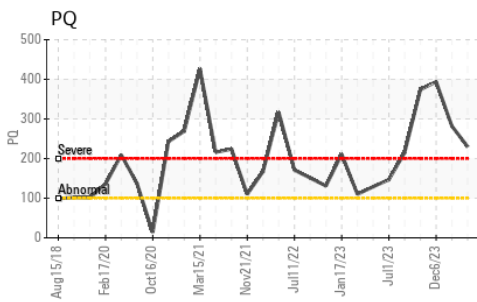
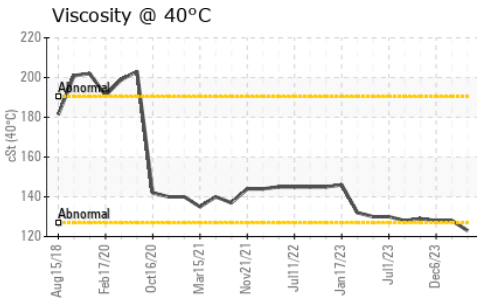
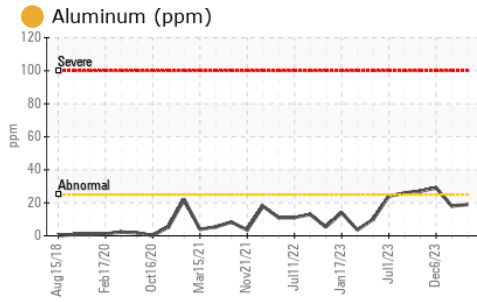
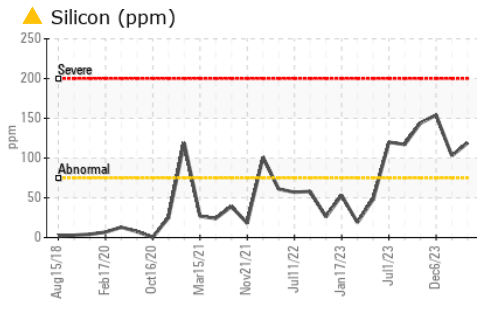
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0214068	JR0208993	JR0194090
Sample Date		Client Info		14 Jul 2024	08 Apr 2024	06 Dec 2023
Machine Age	hrs	Client Info		9877	8482	7952
Oil Age	hrs	Client Info		9877	8482	6733
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184		230	282	394
Iron	ppm	ASTM D5185m	>500	388	291	454
Chromium	ppm	ASTM D5185m	>10	4	4	5
Nickel	ppm	ASTM D5185m	>10	1	2	2
Titanium	ppm	ASTM D5185m		<1	2	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	19	18	29
Lead	ppm	ASTM D5185m	>25	18	13	25
Copper	ppm	ASTM D5185m	>50	30	22	52
Tin	ppm	ASTM D5185m	>10	<1	2	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 119	▲ 103	▲ 154
Potassium	ppm	ASTM D5185m	>20	12	11	14
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		8	9	13
Boron	ppm	ASTM D5185m		3	0	5
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		2	3	5
Manganese	ppm	ASTM D5185m		3	3	4
Magnesium	ppm	ASTM D5185m		9	13	8
Calcium	ppm	ASTM D5185m		40	112	61
Phosphorus	ppm	ASTM D5185m		464	611	909
Zinc	ppm	ASTM D5185m		40	57	52
Sulfur	ppm	ASTM D5185m		15308	19518	19026
Visc @ 40°C	cSt	ASTM D445		123	128	128



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0214068
Lab Number : 06238140
Unique Number : 11126974
Test Package : CONST (Additional Tests: PQ)

Received : 16 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 18 Jul 2024 - Don Baldrige

MARTIN MARIETTA - FOUNTAIN
 5368 ALLEN GAY ROAD
 FOUNTAIN, NC
 US 27829
 Contact: BRIAN SAMS
 Brian.sams@martinmarietta.com

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)