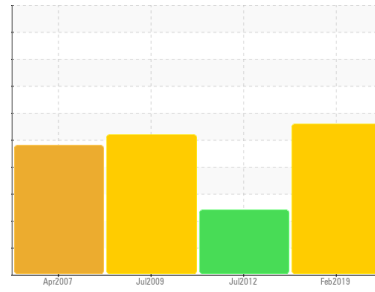




OIL ANALYSIS REPORT

Area
OKLAHOMA/102/EG - SCRAPER
 Machine Id
76.31L [OKLAHOMA^102^EG - SCRAPER]
 Component
Gear Drive
 Fluid
MOBIL MOBILUBE HD PLUS 85W140 (--- GAL)

Sample Rating Trend



WATER



DIAGNOSIS

▲ Recommendation

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

▲ Wear

Gear wear is indicated.

▲ Contamination

There is a light concentration of water present in the oil. 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0316299	WC33495055	WC04282076
Sample Date	Client Info		05 Feb 2019	18 Jul 2012	10 Jul 2009
Machine Age	hrs	Client Info	13063	9506	7787
Oil Age	hrs	Client Info	500	---	1077
Oil Changed	Client Info		Not Chngd	Not Chngd	N/A
Sample Status			ABNORMAL	ABNORMAL	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	▲ 379	7	43
Chromium	ppm	ASTM D5185m	>5	2	2	1
Nickel	ppm	ASTM D5185m	>8	< 1	0	0
Titanium	ppm	ASTM D5185m		2	0	0
Silver	ppm	ASTM D5185m		3	0	0
Aluminum	ppm	ASTM D5185m	>20	● 34	6	3
Lead	ppm	ASTM D5185m	>20	< 1	0	0
Copper	ppm	ASTM D5185m	>500	< 1	5	0
Tin	ppm	ASTM D5185m	>75	0	0	0
Antimony	ppm	ASTM D5185m		< 1	---	---
Vanadium	ppm	ASTM D5185m		< 1	0	0
Cadmium	ppm	ASTM D5185m		< 1	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		223	● 51	3
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		0	● 32	1
Manganese	ppm	ASTM D5185m		4	---	---
Magnesium	ppm	ASTM D5185m		6	● 544	7
Calcium	ppm	ASTM D5185m		22	● 1341	2317
Phosphorus	ppm	ASTM D5185m		1200	857	827
Zinc	ppm	ASTM D5185m		24	● 919	995
Sulfur	ppm	ASTM D5185m		26249	---	---

CONTAMINANTS

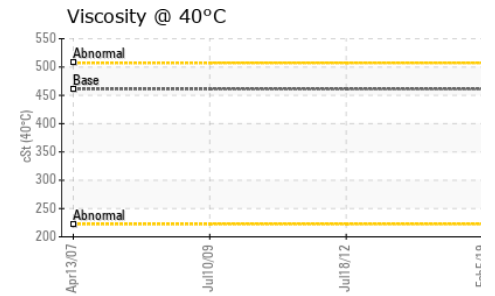
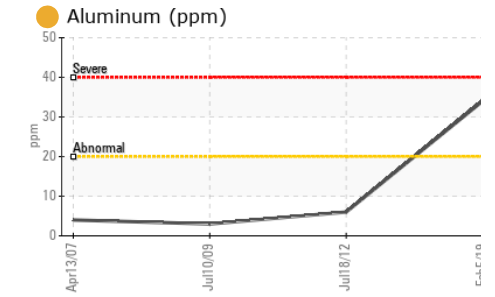
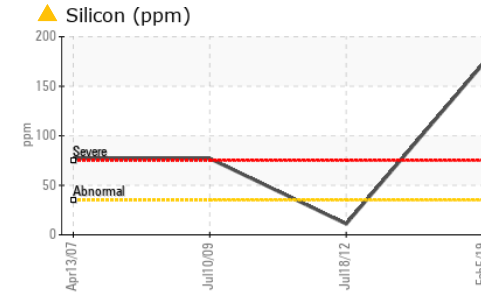
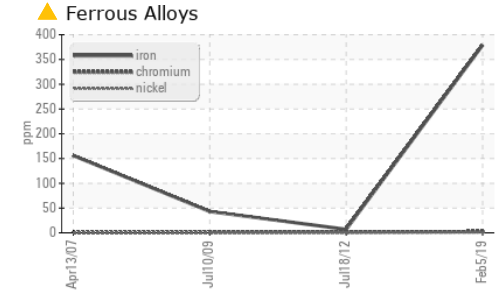
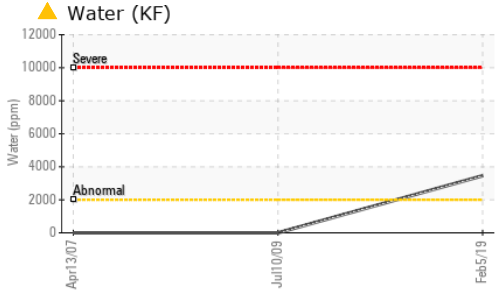
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	▲ 172	11	▲ 77
Sodium	ppm	ASTM D5185m		4	4	1
Potassium	ppm	ASTM D5185m	>20	12	1	2
Water	%	ASTM D6304	>0.2	▲ 0.346	---	0.12
ppm Water	ppm	ASTM D6304	>2000	▲ 3460	---	---

VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	● MILKY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	---	---
Free Water	scalar	*Visual		NEG	---	---



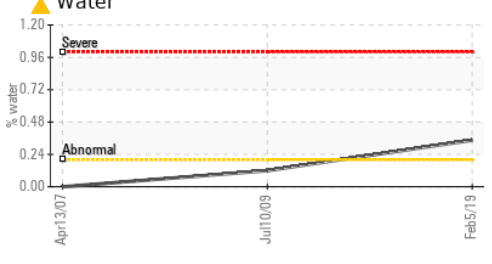
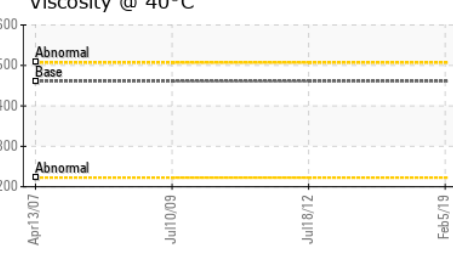
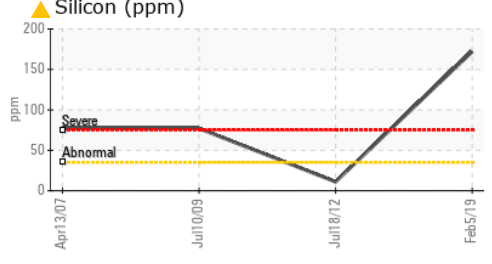
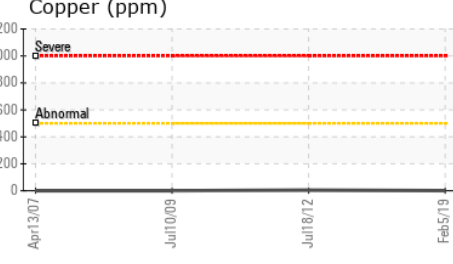
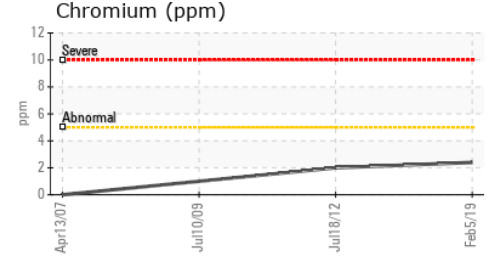
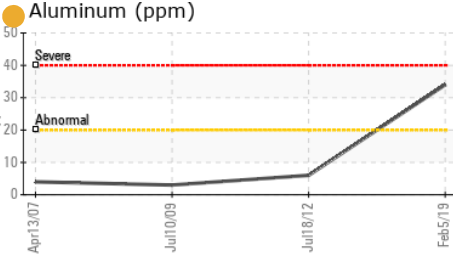
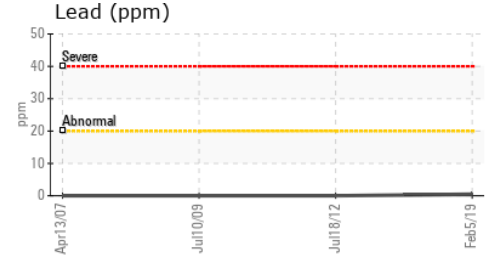
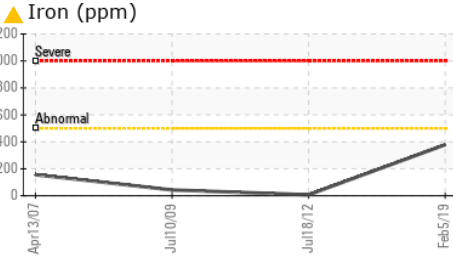
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 461	261.1	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	
Bottom			no image	no image	

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0316299 **Received** : 14 Feb 2019
Lab Number : **04651107** **Tested** : 15 Feb 2019
Unique Number : 8497607 **Diagnosed** : 15 Feb 2019 - Don Baldrige
Test Package : MOB 1 (Additional Tests: KF, PQ)

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 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: DOUG KING
 doug.king@sherwood.net
 T: (316)617-3161
 F: x:

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)