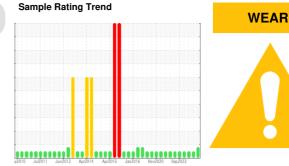


OIL ANALYSIS REPORT





KEMP QUARRIES / RIVER VALLEY ARKOMA WL049

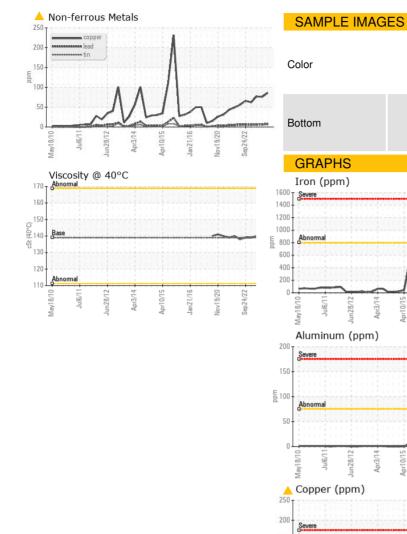
Component **Rear Right Final Drive**

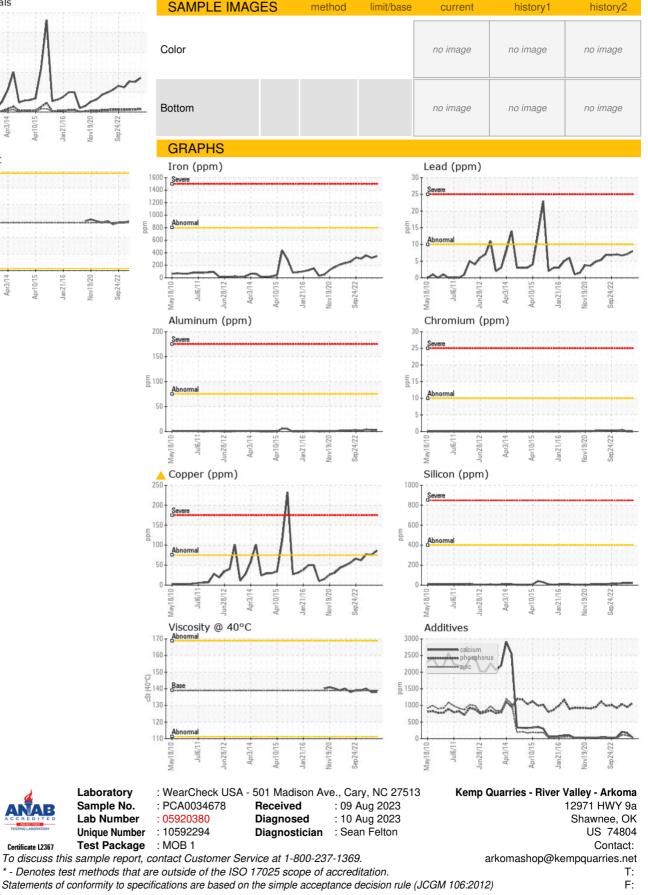
MOBIL MOBILUBE HD PLUS 80W90 (--- GAL)

MOBIL MOBILUBE H	•		y2010 Jul20	111 Jun2012 Apr2014	Apr2015 Jan2016 Nov2020 S	Sep 2022	
DIAGNOSIS	SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0034678	PCA0070351	PCA0070379
o corrective action is recommended at this time.	Sample Date		Client Info		04 Aug 2023	23 Mar 2023	02 Dec 2022
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		4581	4603	1753
Wear	Oil Age	hrs	Client Info		1000	4603	1753
e copper level is abnormal. All other component	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
vear rates are normal.	Sample Status				ABNORMAL	NORMAL	NORMAL
Contamination There is no indication of any contamination in the pil.	WEAR META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>800	347	318	357
Fluid Condition The condition of the oil is acceptable for the time in service.	Chromium	ppm	ASTM D5185m	>10	0	0	<1
	Nickel	ppm	ASTM D5185m	>5	<1	0	0
	Titanium	ppm	ASTM D5185m	>15	0	0	<1
	Silver	ppm	ASTM D5185m		0	0	1
	Aluminum	ppm	ASTM D5185m		3	3	4
	Lead	ppm	ASTM D5185m		8	7	7
	Copper	ppm	ASTM D5185m		▲ 86	76	77
	Tin		ASTM D5185m		6	5	4
		ppm		>0			
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base		history1	history2
	Boron	ppm	ASTM D5185m		114	95	113
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	<1
	Manganese	ppm	ASTM D5185m		4	4	4
	Magnesium	ppm	ASTM D5185m		6	9	6
	Calcium	ppm	ASTM D5185m		36	167	205
	Phosphorus	ppm	ASTM D5185m		1068	945	1044
	Zinc	ppm	ASTM D5185m		41	95	112
	Sulfur	ppm	ASTM D5185m		25056	23331	25671
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>400	21	20	19
	Sodium	ppm	ASTM D5185m		1	0	0
	Potassium	ppm	ASTM D5185m	>20	<1	0	2
	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	MODER	NONE
	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
	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
	Free Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	FLUID PROP			limit/base		history1	history2
Visc @ 40°C cSt ASTM port Id: KEMSHA [WUSCAR] 05920380 (Generated: 08/10/2023 15:46:06) Rev: 1				139	138	138	140 Submitted E



OIL ANALYSIS REPORT





Certificate L2367